

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534292

Luminaire Tested: **GALN-SA9D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55269 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

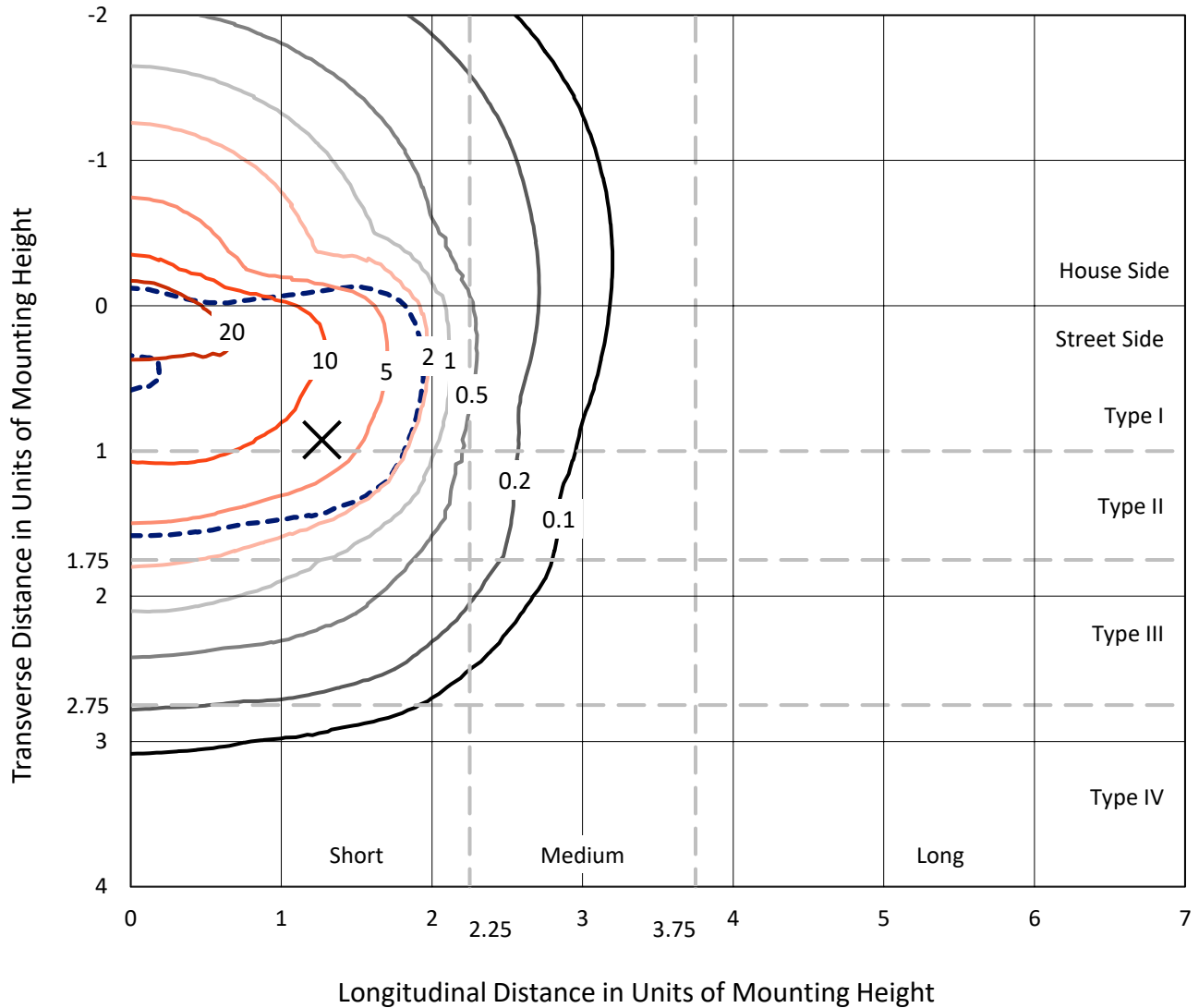
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

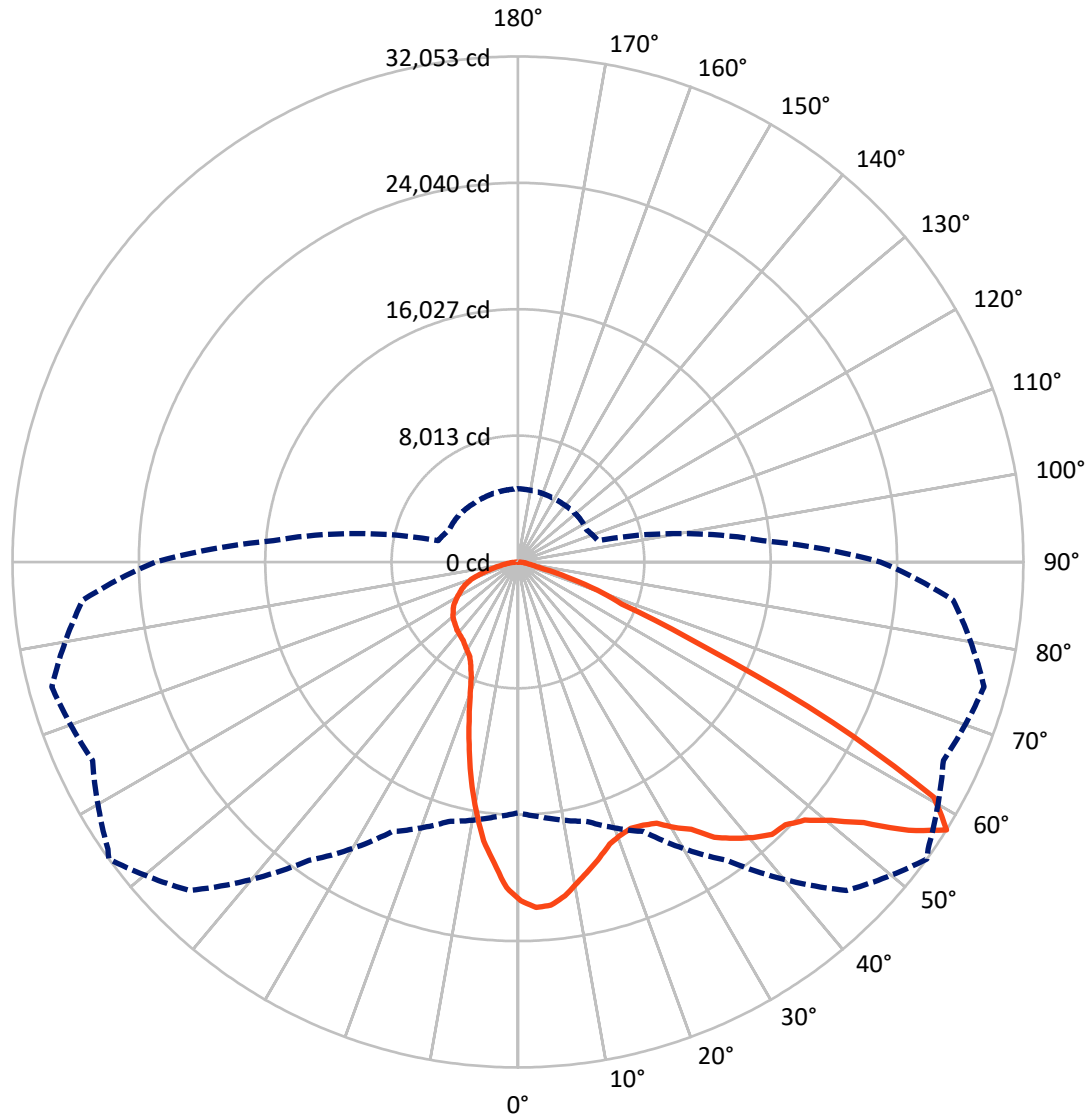
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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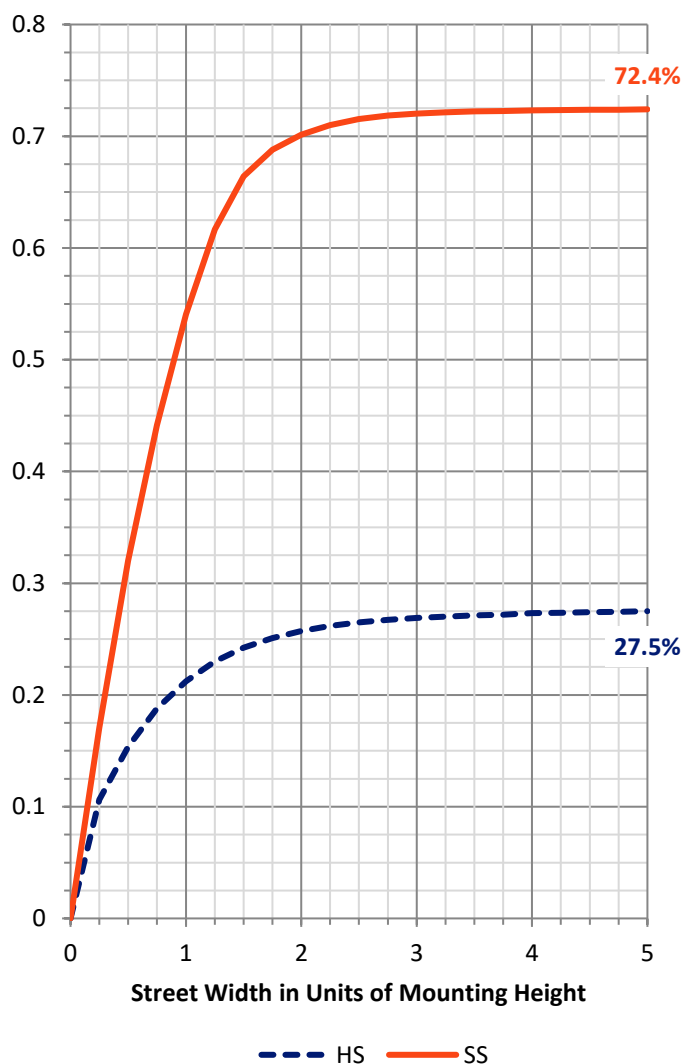
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15290.5	0.0	15290.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	39978.5	0.0	39978.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	55269.0	0.0	55269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1852.7	3.4
10°-20°	4289.6	7.8
20°-30°	6026.9	10.9
30°-40°	8425.7	15.2
40°-50°	11406.7	20.6
50°-60°	13893.9	25.1
60°-70°	7236.5	13.1
70°-80°	1854.3	3.4
80°-90°	282.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	55269.0	100.0
0°-180°	55269.0	100.0

Coefficient of Utilization



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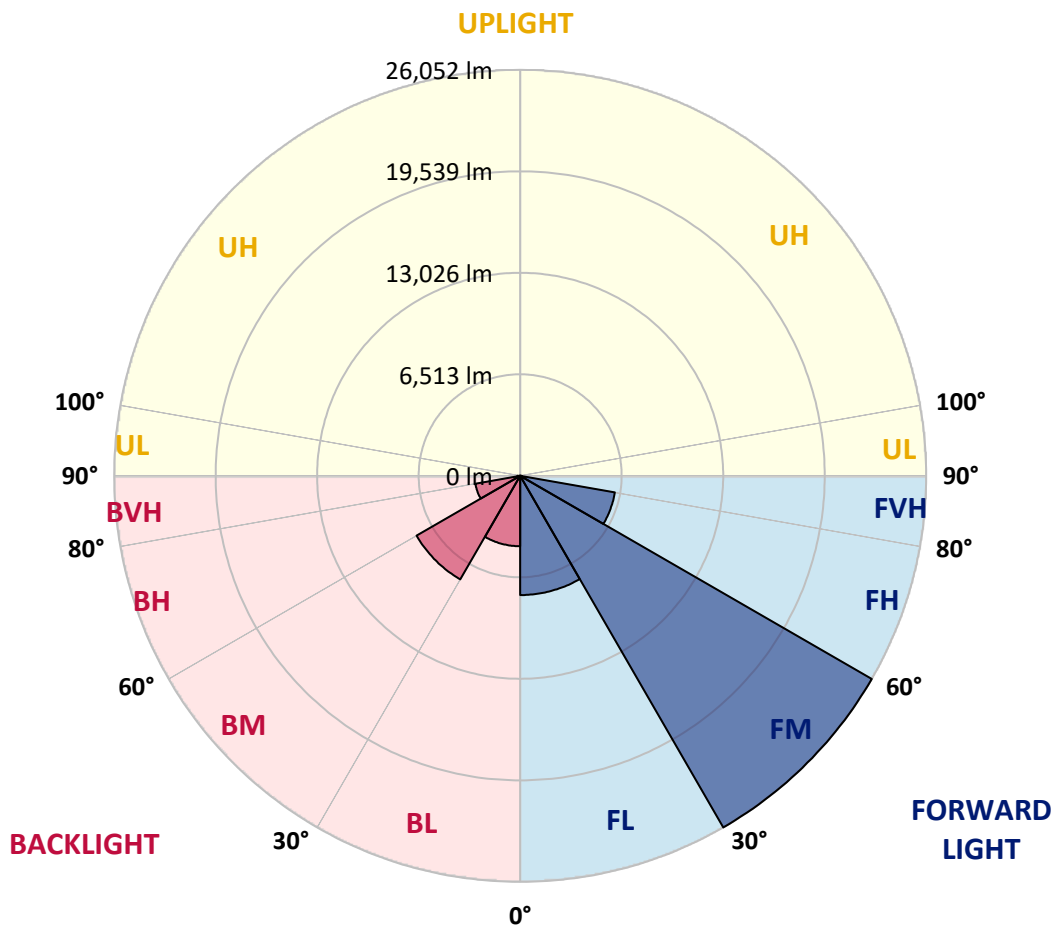
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7650.0	13.8			
FM (30°-60°)	26052.1	47.1			
FH (60°-80°)	6169.6	11.2			G3/7500
FVH (80°-90°)	106.9	0.2			G2/225
BL (0°-30°)	4519.1	8.2	B4/5000		
BM (30°-60°)	7674.1	13.9	B4/8500		
BH (60°-80°)	2921.2	5.3	B4/5000		G4/5000
BVH (80°-90°)	176.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4
2.5°	22093.4	22008.1	22022.3	22136.0	21993.9	21937.1	21937.1	21660.0	21681.3	21489.5	21439.8
5°	21581.9	21383.0	21517.9	21688.4	21716.9	21773.7	21866.0	21795.0	21596.1	21390.1	21056.2
7.5°	20246.3	20423.9	20473.7	20594.4	20850.2	21084.6	21375.9	21177.0	21169.9	20963.8	20764.9
10°	19074.2	18967.6	19237.6	19415.2	19841.4	20232.1	20679.7	20658.4	20764.9	20530.5	20189.5
12.5°	17909.1	17823.9	17951.8	18356.7	18953.4	19521.7	20054.5	19855.6	20423.9	20381.3	19649.6
15°	16673.0	16737.0	16921.7	17298.2	18079.6	18761.6	19436.5	19443.6	19948.0	20118.5	19138.1
17.5°	15806.3	15735.3	15969.7	16531.0	17227.1	18044.1	18811.3	18967.6	19742.0	19841.4	18981.8
20°	15159.9	15259.3	15564.8	15849.0	16651.7	17639.2	18505.9	18562.7	19699.3	19969.3	18733.2
22.5°	15003.6	14946.8	15046.2	15508.0	16168.7	17241.4	18342.5	18555.6	19692.2	19926.7	18264.3
25°	14840.2	15024.9	15017.8	15479.6	15962.6	16921.7	18477.4	18711.9	20068.7	20146.9	18328.3
27.5°	15209.6	15188.3	15387.2	15422.7	16019.5	17006.9	18761.6	18939.2	20693.9	20629.9	18378.0
30°	15579.0	15472.5	15593.2	16012.4	16289.4	17497.1	19543.0	19528.8	21503.7	21461.1	18534.3
32.5°	16033.7	15983.9	16062.1	16431.5	16900.4	18150.7	20203.7	20622.8	22327.8	22597.8	19074.2
35°	16118.9	16324.9	16509.6	17006.9	17674.7	19209.2	21446.9	21795.0	23279.7	24125.1	20104.3
37.5°	16658.8	16737.0	17170.3	18051.2	18662.1	20622.8	22235.4	22455.7	24146.4	25105.5	21191.2
40°	17234.2	17326.6	17980.2	18903.7	19742.0	21546.4	22974.3	23045.3	24423.5	25858.5	21901.6
42.5°	18015.7	18100.9	18747.4	19905.3	21027.8	22334.9	23627.8	23706.0	24402.2	26725.2	23031.1
45°	18825.5	19031.6	19791.7	21105.9	22114.7	23258.4	23777.0	24096.7	24601.1	27499.5	23947.5
47.5°	19962.2	20154.0	20779.1	22065.0	23244.2	24068.3	24466.1	24778.7	25077.0	28174.4	24537.1
50°	21169.9	21205.4	21965.5	23130.5	23997.2	24984.7	25751.9	25858.5	25702.2	28955.8	25538.8
52.5°	22057.8	22171.5	22761.1	23897.8	25190.7	26405.5	27456.9	27570.5	27265.1	29247.1	25879.8
55°	20587.3	20523.4	21482.4	22995.6	25993.5	28522.5	30049.8	30135.1	28401.7	30149.3	26995.1
57.5°	15912.9	16218.4	17035.3	18861.1	23095.0	29460.2	32053.1	31747.7	29765.7	30603.9	27705.5
60°	11565.3	11494.2	12041.2	13263.1	17404.7	25389.6	30305.6	30618.1	28650.3	27584.7	22846.4
62.5°	9419.9	9320.4	9363.0	9405.7	11231.4	16850.6	22434.4	22427.3	22065.0	19827.2	15408.5
65°	7530.2	7764.6	7786.0	8105.6	8340.1	10066.3	13000.3	13696.5	11927.6	9782.2	7096.9
67.5°	5676.1	5590.8	5875.0	7011.6	7452.1	7267.4	7096.9	7175.0	5100.7	3679.9	3466.7
70°	3346.0	3310.5	3651.4	4887.5	6137.8	5775.5	5349.3	5356.4	3502.3	2571.6	2862.9
72.5°	1832.8	1825.7	1896.8	2479.3	3488.1	3623.0	3211.0	3310.5	2088.6	2081.5	2237.8
75°	1023.0	1001.7	980.3	1094.0	1257.4	1328.4	1356.9	1371.1	1435.0	1605.5	1669.4
77.5°	376.5	362.3	362.3	419.1	532.8	667.8	845.4	859.6	1015.9	1165.1	1229.0
80°	127.9	142.1	191.8	262.8	355.2	476.0	575.4	589.6	717.5	817.0	838.3
82.5°	78.1	85.2	127.9	184.7	255.7	333.9	426.2	433.3	532.8	596.7	625.1
85°	35.5	42.6	71.0	113.7	163.4	220.2	227.3	227.3	220.2	227.3	213.1
87.5°	0.0	0.0	14.2	14.2	14.2	21.3	28.4	21.3	35.5	42.6	42.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4	21482.4
2.5°	21290.6	21212.5	20970.9	20757.8	20693.9	20409.7	19990.6	20040.3	19734.8	19876.9	19727.7
5°	20999.4	20736.5	20118.5	19855.6	19166.5	18854.0	18640.8	18108.0	17859.4	17809.7	17596.6
7.5°	20253.4	20090.0	19315.7	18605.3	17873.6	17248.5	16445.7	15898.7	15508.0	15401.4	15088.8
10°	19663.8	19301.5	18228.8	17149.0	16104.7	15017.8	13973.5	13156.6	12758.7	12297.0	12140.7
12.5°	19081.3	18534.3	17085.1	15699.8	14350.0	12979.0	11714.5	10719.9	9853.2	9647.2	9576.2
15°	18719.0	17767.0	16062.1	14392.7	12474.6	10684.4	9419.9	8766.3	8233.5	8013.3	8169.6
17.5°	18243.0	17134.8	15081.7	12858.2	10748.3	9100.2	8041.7	7636.8	7445.0	7466.3	7402.3
20°	17646.3	16538.1	13795.9	11465.8	9206.8	7892.5	7288.7	7139.5	7167.9	7217.6	7196.3
22.5°	17220.0	15813.5	12865.3	10045.0	7956.5	7224.7	6976.1	6869.5	6961.9	7004.5	6969.0
25°	16893.3	15195.4	11735.8	8787.6	7231.8	6848.2	6734.6	6727.5	6869.5	6926.4	6890.9
27.5°	16594.9	14620.0	10613.3	7828.6	6748.8	6557.0	6521.5	6606.7	6699.1	6755.9	6805.6
30°	16417.3	14179.5	9562.0	7025.8	6507.2	6414.9	6351.0	6429.1	6478.8	6535.7	6507.2
32.5°	16587.8	13867.0	8546.1	6571.2	6308.3	6216.0	6301.2	6251.5	6336.7	6386.5	6308.3
35°	17120.6	13589.9	7821.5	6329.6	6081.0	6116.5	6130.7	6109.4	6144.9	6102.3	6194.7
37.5°	17646.3	13490.5	7153.7	6123.6	5974.4	5974.4	5960.2	5917.6	5988.7	5974.4	6017.1
40°	18314.1	13554.4	6585.4	5903.4	5875.0	5860.8	5803.9	5796.8	5768.4	5775.5	5789.7
42.5°	18896.6	13696.5	6258.6	5761.3	5782.6	5811.1	5704.5	5619.2	5654.8	5583.7	5583.7
45°	19514.6	13824.3	5967.3	5661.9	5640.6	5633.5	5548.2	5498.5	5470.1	5477.2	5541.1
47.5°	20487.9	14009.0	5747.1	5526.9	5541.1	5434.5	5413.2	5349.3	5377.7	5420.3	5427.4
50°	21177.0	14399.8	5576.6	5370.6	5420.3	5349.3	5221.4	5193.0	5193.0	5264.0	5249.8
52.5°	21660.0	14946.8	5413.2	5200.1	5221.4	5164.6	5122.0	5058.0	5015.4	5114.9	5164.6
55°	23137.7	15856.1	5370.6	5058.0	5050.9	4994.1	4916.0	4852.0	4830.7	4844.9	4944.4
57.5°	22995.6	15571.9	5235.6	4809.4	4795.2	4717.0	4638.9	4617.6	4610.5	4624.7	4653.1
60°	18669.3	11501.3	4674.4	4525.2	4503.9	4489.7	4411.6	4326.3	4283.7	4326.3	4290.8
62.5°	12353.8	7700.7	4120.3	4184.2	4198.5	4162.9	4035.1	3949.8	3964.0	4013.7	3935.6
65°	6066.8	4525.2	3736.7	3907.2	3921.4	3821.9	3701.2	3601.7	3552.0	3594.6	3559.1
67.5°	3466.7	3459.6	3424.1	3601.7	3594.6	3495.2	3303.3	3218.1	3132.9	3147.1	3125.7
70°	2941.0	2997.9	3068.9	3175.5	3168.4	3054.7	2827.4	2763.4	2642.7	2628.5	2593.0
72.5°	2315.9	2415.4	2571.6	2649.8	2585.8	2443.8	2294.6	2188.0	2081.5	2017.5	2038.8
75°	1719.2	1861.2	1946.5	1996.2	1896.8	1818.6	1697.9	1570.0	1442.1	1385.3	1364.0
77.5°	1250.3	1292.9	1371.1	1406.6	1342.7	1264.5	1193.5	1065.6	944.8	866.7	845.4
80°	873.8	902.2	959.0	959.0	959.0	923.5	831.2	703.3	625.1	554.1	539.9
82.5°	610.9	639.4	696.2	667.8	660.7	618.0	561.2	461.8	376.5	326.8	312.6
85°	213.1	234.4	284.2	341.0	362.3	355.2	319.7	255.7	198.9	163.4	149.2
87.5°	49.7	49.7	56.8	49.7	49.7	56.8	49.7	49.7	49.7	35.5	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)