

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: P534300

Luminaire Tested: **GALN-SA9D-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57409 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

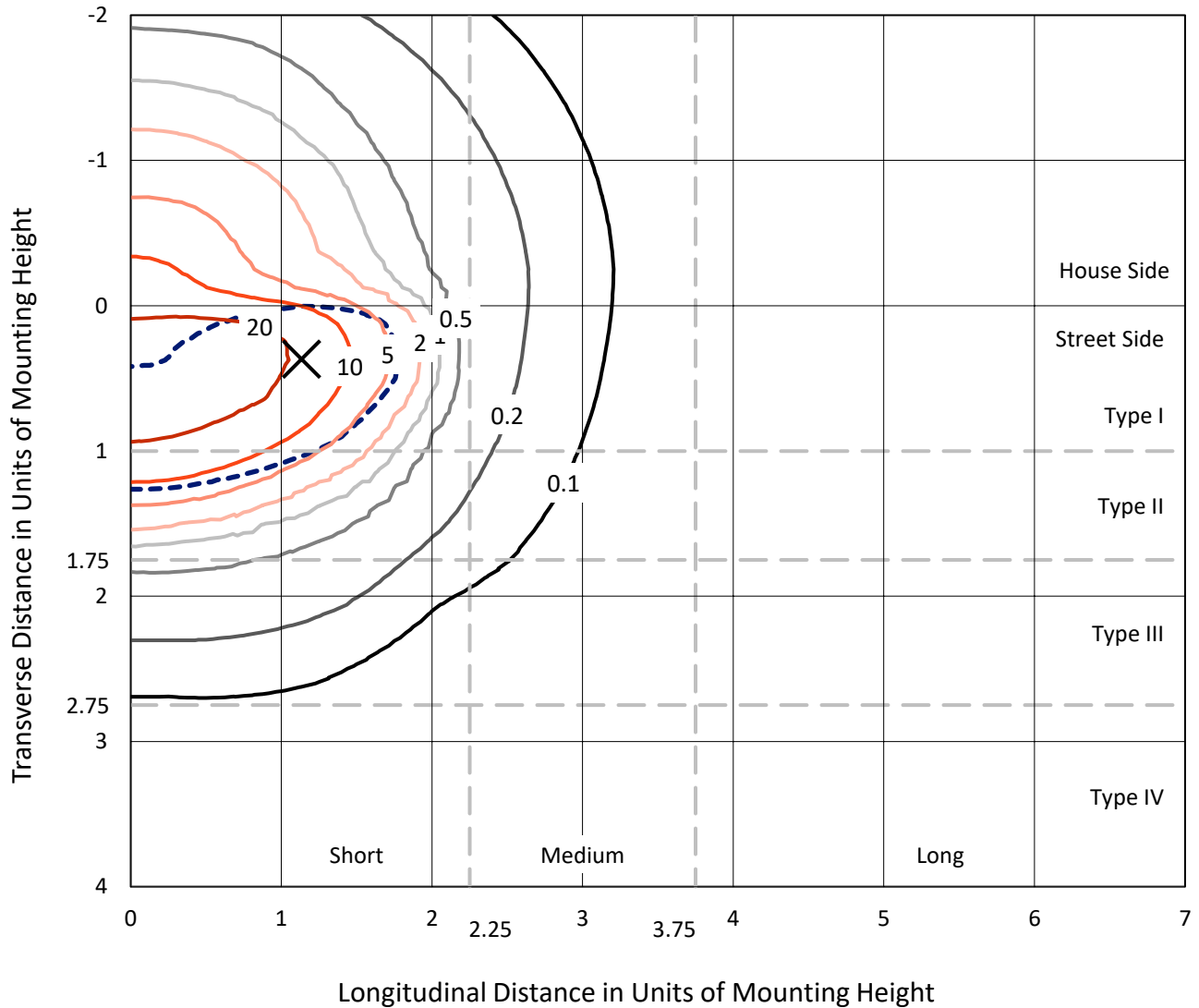
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

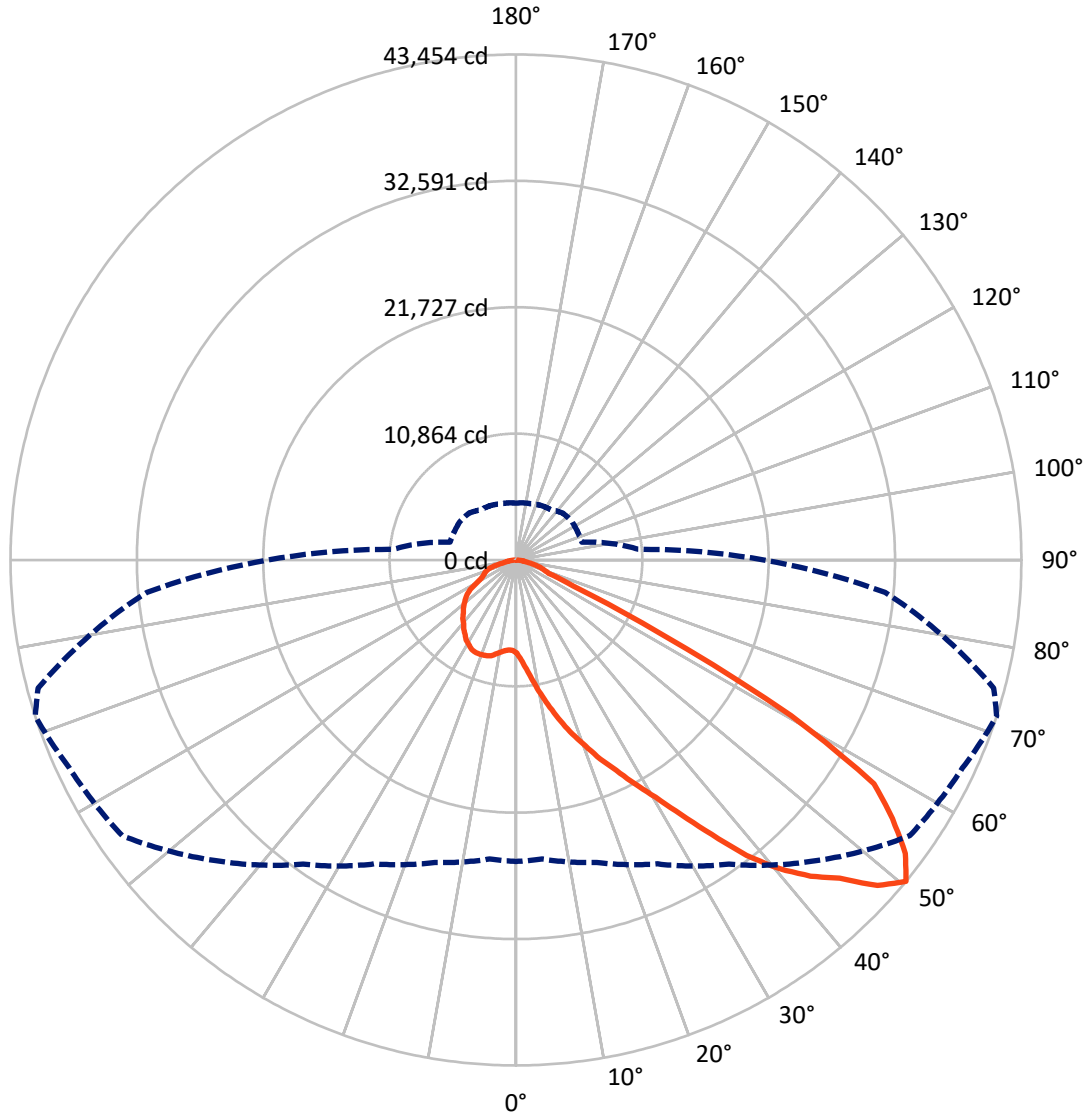
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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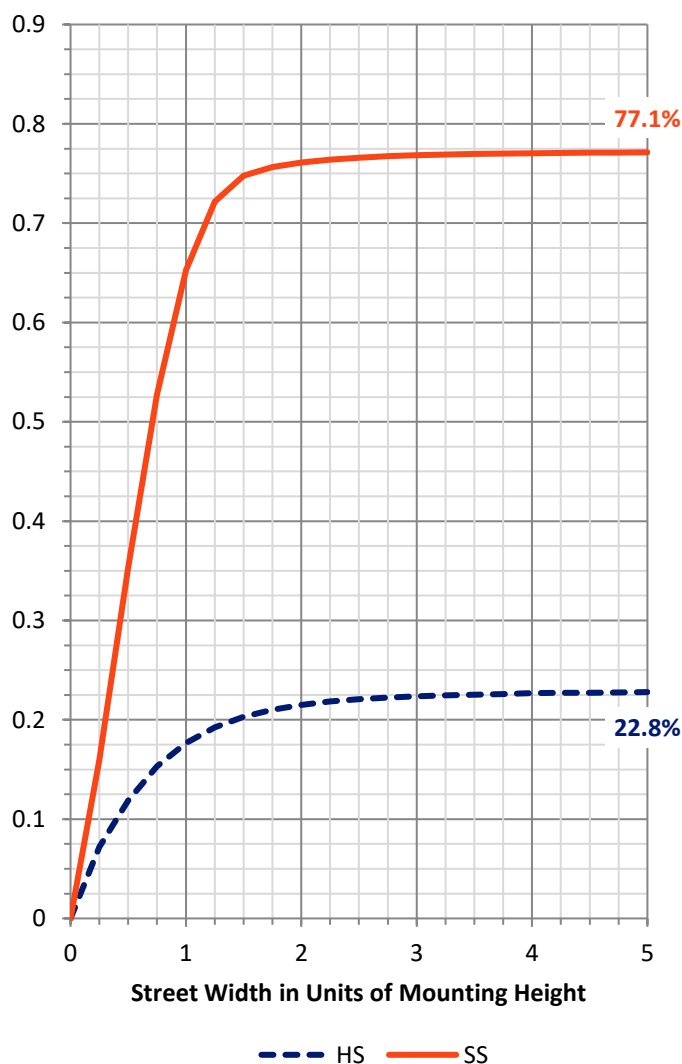
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13152.7	0.0	13152.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	44256.3	0.0	44256.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	57409.0	0.0	57409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.0	1.6
10°-20°	3514.2	6.1
20°-30°	6813.8	11.9
30°-40°	11288.1	19.7
40°-50°	15794.4	27.5
50°-60°	13324.6	23.2
60°-70°	4061.3	7.1
70°-80°	1424.8	2.5
80°-90°	247.7	0.4
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°	57409.0	100.0
0°-180°	57409.0	100.0

Coefficient of Utilization

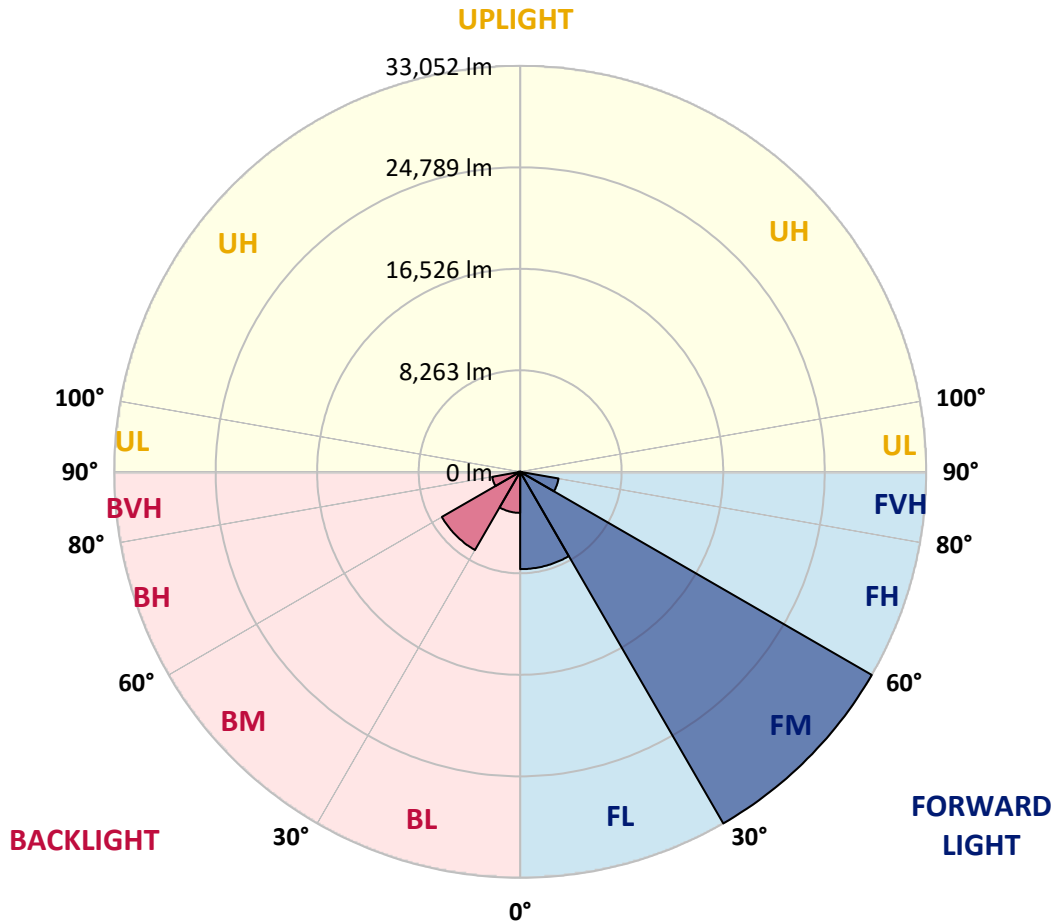


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7924.5	13.8			
FM (30°-60°)	33051.9	57.6			
FH (60°-80°)	3168.9	5.5			G2/5000
FVH (80°-90°)	110.9	0.2			G2/225
BL (0°-30°)	3343.5	5.8	B4/5000		
BM (30°-60°)	7355.2	12.8	B4/8500		
BH (60°-80°)	2317.3	4.0	B3/2500		G3/2500
BVH (80°-90°)	136.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8
2.5°	10279.3	10215.3	10023.5	9959.6	9732.3	9320.2	9178.2	8759.0	8581.4	8418.1	8226.2
5°	13000.0	12701.7	12680.4	12318.1	11792.4	11486.9	10577.6	9966.7	9405.5	9121.3	8595.6
7.5°	14733.4	14740.5	14740.5	14442.1	14023.0	13248.7	12431.7	11330.6	10485.3	10066.1	9171.1
10°	16381.5	16239.4	16161.2	16132.8	15848.7	15095.7	14221.9	12858.0	11700.0	11209.9	9604.4
12.5°	17546.5	17425.7	17603.3	17511.0	17305.0	16814.8	15990.7	14435.0	12985.8	12325.2	10300.6
15°	18100.6	18185.8	18327.9	18583.7	18491.3	18306.6	17397.3	16054.7	14371.1	13625.2	10918.6
17.5°	18953.1	18718.6	18889.1	19208.8	19464.5	19379.3	18860.7	17226.8	15742.1	14825.7	11749.8
20°	19549.8	19414.8	19500.0	19869.4	20061.3	20544.3	20274.4	18761.2	17056.3	16090.2	12730.1
22.5°	21254.7	21055.8	20778.7	20835.6	20906.6	21247.6	21311.5	20444.9	18583.7	17560.7	13660.7
25°	23357.4	23172.7	22846.0	22512.1	22306.1	22242.1	22462.3	21766.2	20047.0	18988.6	14662.3
27.5°	25673.3	25360.7	25154.7	24465.6	23911.5	23826.3	23719.7	23343.2	21780.4	20636.7	15791.8
30°	27925.2	27676.6	27399.5	26298.4	25723.0	25630.7	25105.0	25211.5	23662.9	22391.3	17070.5
32.5°	29630.1	29651.4	29019.2	28188.0	27648.2	27158.0	26966.2	27271.6	26078.2	25055.3	18498.4
35°	31008.3	31072.2	30468.4	29715.4	29132.9	29473.8	29388.6	29530.7	28962.4	27712.1	20160.7
37.5°	32350.9	32031.2	31384.8	31022.5	30717.0	31278.2	32002.8	32123.6	32230.1	30759.6	22092.9
40°	32571.1	32599.5	32223.0	32478.8	32095.2	32940.5	34624.1	34467.8	34901.2	33615.4	24188.6
42.5°	32258.5	32322.5	32471.7	32834.0	33757.5	34773.3	37273.9	36634.5	37160.2	36016.5	26227.4
45°	31747.1	31484.2	31668.9	33047.1	34645.4	36904.5	39696.3	39199.0	39028.5	38069.5	28656.9
47.5°	29303.3	29573.3	30148.7	31846.5	34247.6	37273.9	41415.4	41301.7	41813.2	41138.3	30866.2
50°	25914.8	25808.3	26916.5	28827.4	31924.7	36549.3	41323.0	42353.1	43454.2	42516.5	31853.6
52.5°	19407.7	19976.0	20927.9	23300.6	27719.2	32599.5	39305.6	41024.7	41919.8	41720.9	31058.0
55°	12268.3	12438.8	13014.2	15834.5	19812.6	26163.5	33693.5	37678.8	39277.1	40023.0	30326.3
57.5°	5960.1	5640.5	6343.7	8609.9	11444.3	17596.2	25985.9	32819.8	36293.5	37643.3	28735.0
60°	3111.5	3232.2	3509.3	4319.1	5917.5	9135.5	16196.8	21872.7	27179.3	29253.6	21780.4
62.5°	2578.7	2621.3	2806.0	3210.9	3935.5	5256.8	8268.9	10662.9	13859.6	15727.9	12389.1
65°	2188.0	2209.3	2408.2	2678.1	3139.9	3701.1	4255.2	4454.1	5391.8	5533.9	4404.4
67.5°	1825.7	1847.0	2060.1	2315.9	2614.2	2763.4	2905.5	2891.3	2997.8	2955.2	2948.1
70°	1406.6	1427.9	1648.1	1918.0	2067.2	1982.0	2422.4	2521.9	2564.5	2600.0	2656.8
72.5°	1015.8	1058.5	1229.0	1420.8	1342.6	1541.5	1996.2	2145.4	2202.2	2223.5	2294.5
75°	738.8	753.0	795.6	738.8	852.5	1072.7	1406.6	1591.3	1662.3	1683.6	1790.2
77.5°	326.8	333.9	341.0	426.2	547.0	667.8	838.3	987.4	1086.9	1115.3	1143.7
80°	170.5	177.6	220.2	291.3	390.7	490.2	610.9	696.2	760.1	767.2	795.6
82.5°	106.6	113.7	156.3	206.0	277.0	362.3	447.5	518.6	568.3	575.4	582.5
85°	49.7	63.9	92.3	127.9	184.7	234.4	241.5	206.0	220.2	227.3	213.1
87.5°	14.2	21.3	28.4	21.3	28.4	28.4	35.5	42.6	42.6	42.6	49.7
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°	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8	7991.8
2.5°	8119.7	8055.8	7807.1	7714.8	7473.2	7515.9	7388.0	7380.9	7352.5	7345.4	7338.3
5°	8318.6	8119.7	7821.3	7594.0	7459.0	7444.8	7352.5	7352.5	7380.9	7402.2	7352.5
7.5°	8645.4	8418.1	7913.7	7700.6	7579.8	7558.5	7494.6	7444.8	7508.8	7487.4	7430.6
10°	9021.9	8624.1	8091.3	7906.6	7707.7	7657.9	7657.9	7679.3	7572.7	7608.2	7551.4
12.5°	9441.0	8908.2	8318.6	8105.5	7871.1	7842.6	7828.4	7672.1	7729.0	7700.6	7558.5
15°	9973.8	9235.0	8609.9	8247.6	8048.7	7920.8	7736.1	7707.7	7672.1	7601.1	7537.2
17.5°	10549.2	9590.2	8744.8	8290.2	7991.8	7899.5	7757.4	7608.2	7501.7	7515.9	7466.1
20°	11039.4	9917.0	8794.6	8332.8	7949.2	7771.6	7551.4	7459.0	7345.4	7338.3	7331.2
22.5°	11621.9	10357.4	8865.6	8219.1	7821.3	7636.6	7487.4	7324.1	7245.9	7146.5	7196.2
25°	12318.1	10527.9	8879.8	8155.2	7729.0	7402.2	7324.1	7146.5	7118.0	6976.0	7004.4
27.5°	12822.4	10620.2	8766.1	7956.3	7515.9	7267.2	7125.2	6997.3	6947.6	6841.0	6812.6
30°	13497.3	10762.3	8524.6	7707.7	7302.7	7025.7	6940.5	6912.0	6770.0	6656.3	6642.1
32.5°	14264.5	10854.7	8368.3	7451.9	7082.5	6869.4	6912.0	6777.1	6599.5	6500.0	6471.6
35°	14875.4	10890.2	7977.6	7160.7	6933.3	6798.4	6748.6	6720.2	6464.5	6372.1	6301.1
37.5°	15806.0	10812.0	7650.8	6954.7	6770.0	6720.2	6677.6	6485.8	6194.6	6059.6	5960.1
40°	16892.9	10790.7	7231.7	6663.4	6613.7	6670.5	6542.6	6244.3	5839.4	5690.2	5619.1
42.5°	17937.2	10939.9	6968.9	6507.1	6443.2	6464.5	6286.9	5839.4	5640.5	5555.2	5441.5
45°	19684.7	11252.5	6535.5	6265.6	6237.2	6223.0	6009.9	5541.0	5427.3	5320.8	5299.5
47.5°	21261.8	11046.5	6258.5	6017.0	6045.4	5967.2	5512.6	5363.4	5235.5	5129.0	5093.5
50°	21354.1	10556.3	5867.8	5825.2	5832.3	5697.3	5263.9	5164.5	5001.1	4930.1	4880.3
52.5°	20871.1	9753.6	5505.5	5519.7	5541.0	5320.8	4958.5	4887.4	4752.5	4653.0	4624.6
55°	19514.3	8503.3	5150.3	5207.1	5263.9	4844.8	4731.2	4553.6	4447.0	4304.9	4312.0
57.5°	17191.3	6848.1	4653.0	4745.4	4866.1	4404.4	4319.1	4098.9	3942.6	3829.0	3814.8
60°	11522.4	4873.2	3907.1	3942.6	4212.6	4027.9	4020.8	3800.6	3587.4	3488.0	3431.2
62.5°	6798.4	3722.4	3374.3	3338.8	3331.7	3438.3	3615.9	3537.7	3260.7	3068.9	3125.7
65°	3559.0	3218.0	3139.9	3019.1	2948.1	2919.7	3054.7	3090.2	2905.5	2699.5	2685.3
67.5°	2990.7	2990.7	2926.8	2884.2	2784.7	2663.9	2578.7	2465.0	2436.6	2379.8	2308.7
70°	2720.8	2791.8	2770.5	2671.0	2585.8	2450.8	2230.6	2045.9	1868.3	1804.4	1847.0
72.5°	2372.7	2443.7	2443.7	2394.0	2280.3	2074.3	1861.2	1648.1	1498.9	1385.2	1371.0
75°	1825.7	1861.2	1946.5	1889.6	1740.4	1612.6	1392.4	1172.1	1030.1	923.5	902.2
77.5°	1165.0	1221.9	1221.9	1214.8	1108.2	987.4	845.4	689.1	582.5	504.4	483.1
80°	774.3	809.8	838.3	809.8	738.8	646.4	539.9	433.3	355.2	291.3	277.0
82.5°	568.3	610.9	632.2	603.8	532.8	461.7	383.6	305.5	227.3	177.6	163.4
85°	220.2	227.3	255.7	305.5	298.4	291.3	234.4	170.5	127.9	92.3	85.2
87.5°	56.8	49.7	56.8	56.8	49.7	42.6	42.6	42.6	42.6	21.3	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)