

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: P534092

Luminaire Tested: **GALN-SA9C-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534092
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-SA9C-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA 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: 56007 lumens
Efficiency: N/A
Efficacy: 116.4 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

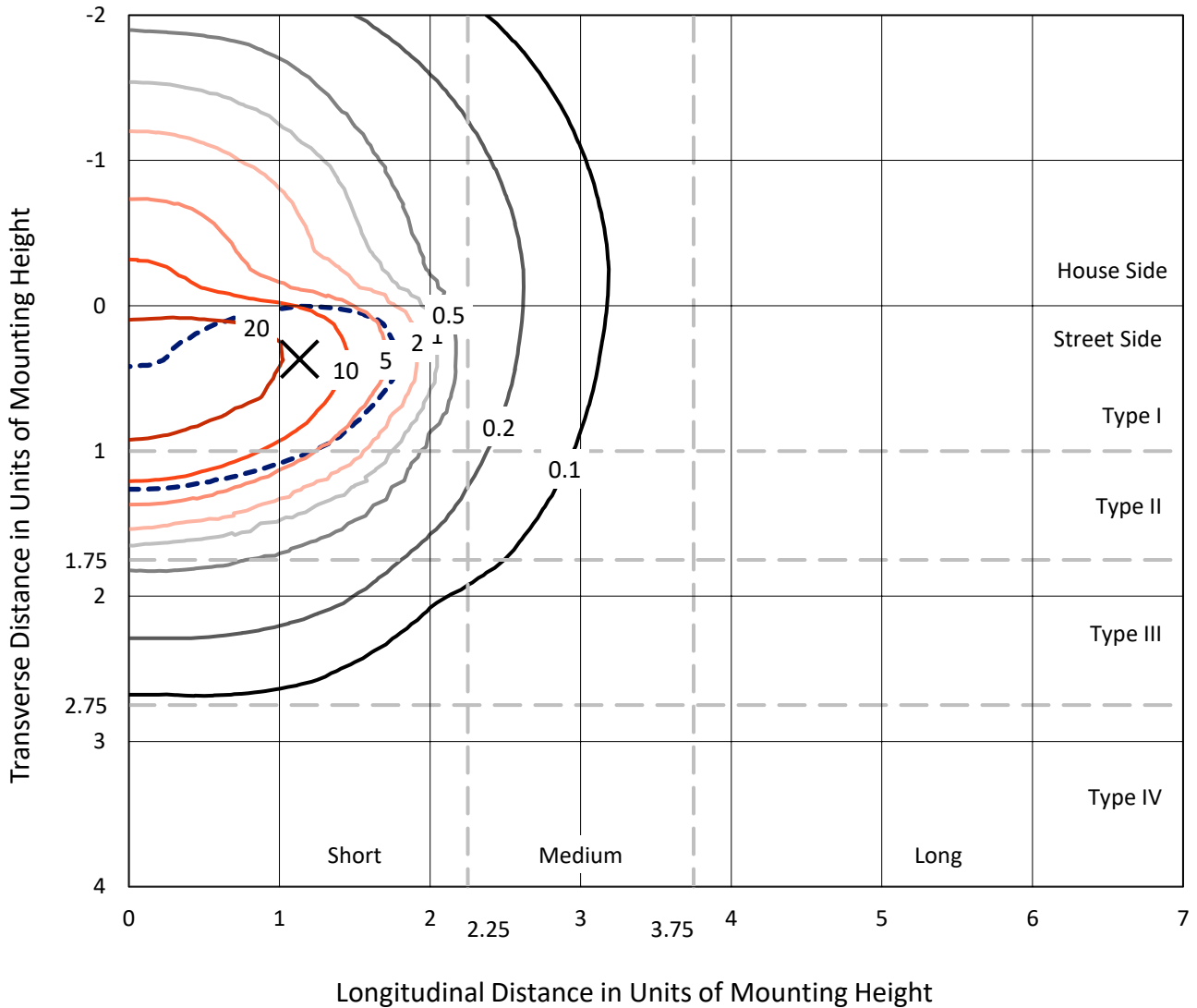
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

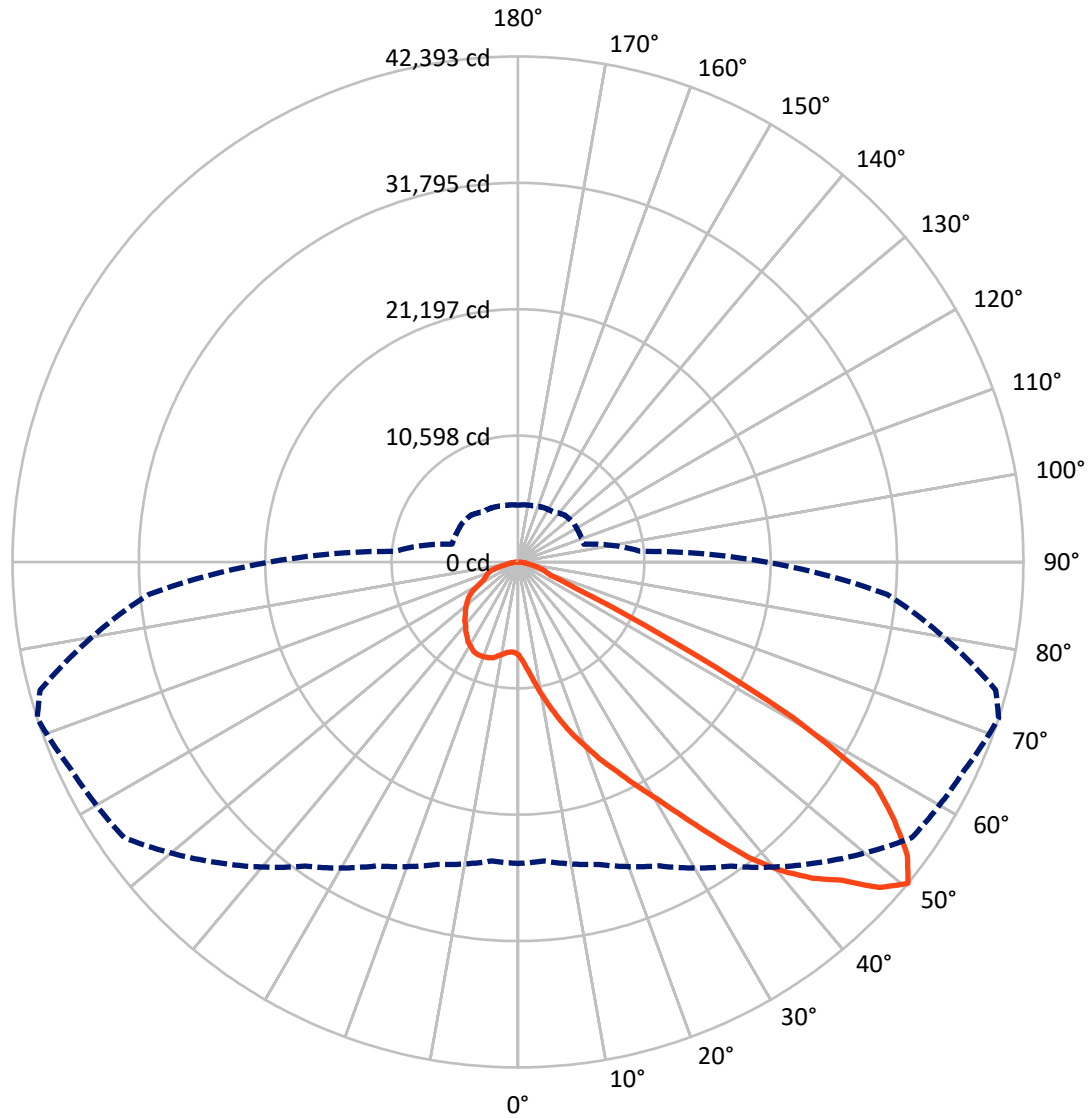
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 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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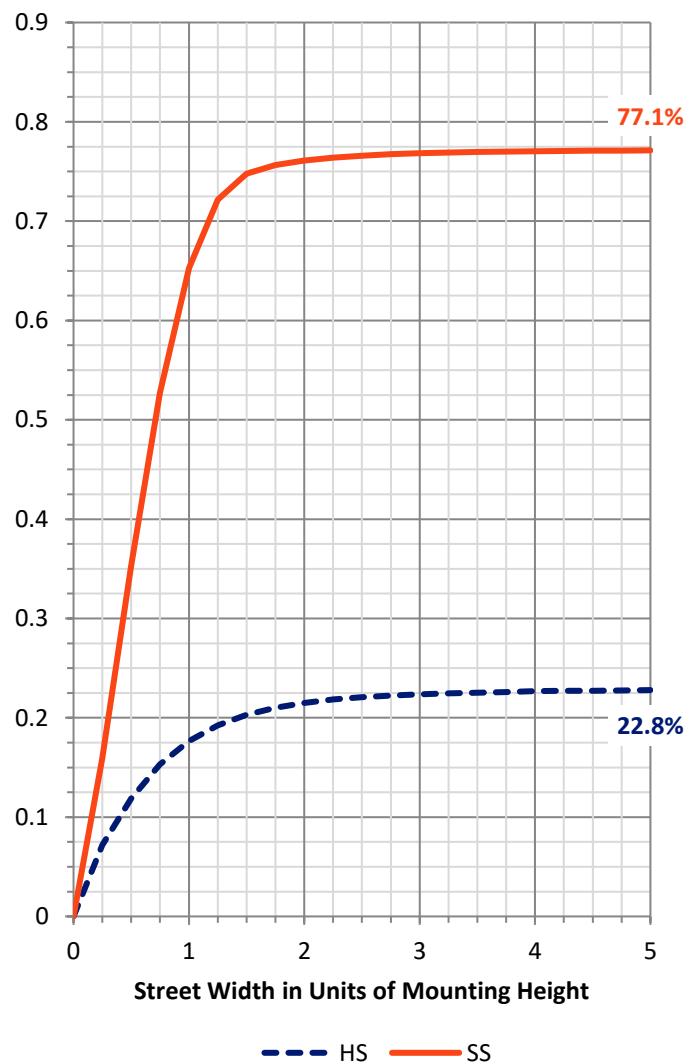
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12831.5	0.0	12831.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	43175.5	0.0	43175.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	56007.0	0.0	56007.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	917.1	1.6
10°-20°	3428.4	6.1
20°-30°	6647.4	11.9
30°-40°	11012.4	19.7
40°-50°	15408.7	27.5
50°-60°	12999.2	23.2
60°-70°	3962.1	7.1
70°-80°	1390.0	2.5
80°-90°	241.7	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°	56007.0	100.0
0°-180°	56007.0	100.0

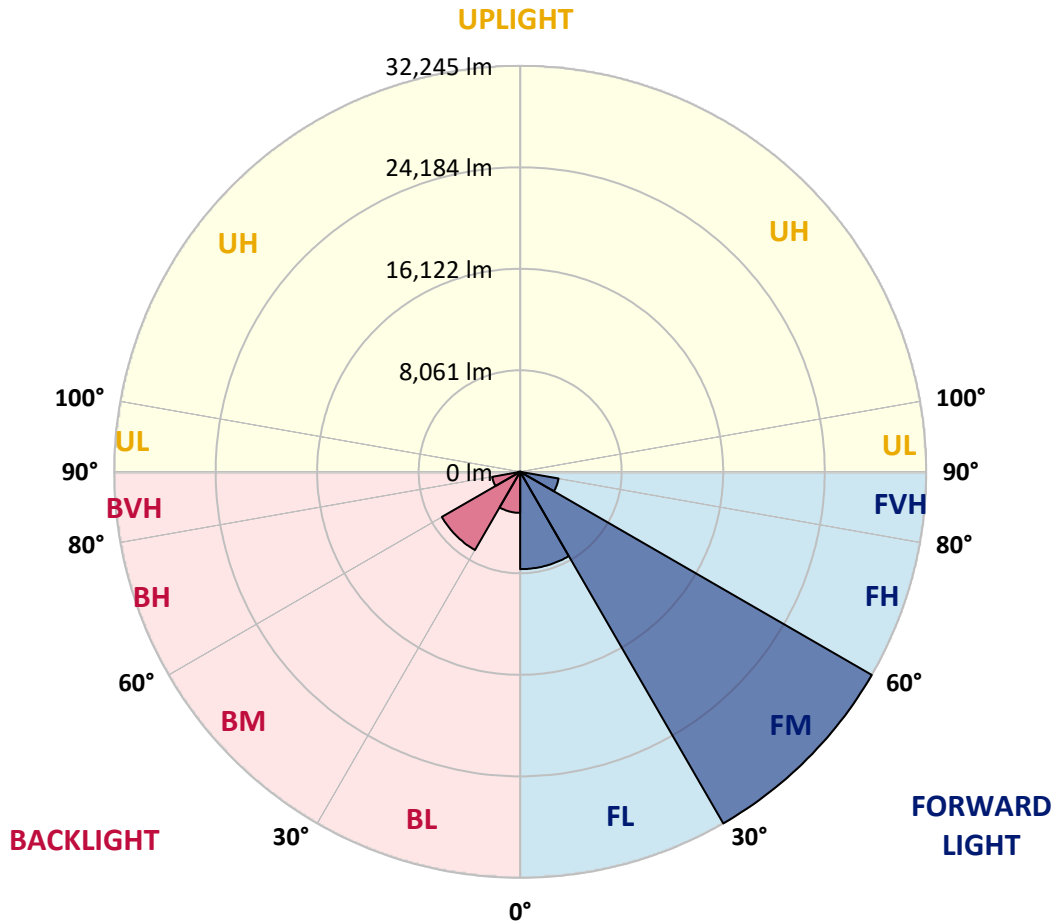


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7731.0	13.8			
FM (30°-60°)	32244.7	57.6			
FH (60°-80°)	3091.5	5.5			G2/5000
FVH (80°-90°)	108.2	0.2			G2/225
BL (0°-30°)	3261.8	5.8	B4/5000		
BM (30°-60°)	7175.6	12.8	B4/8500		
BH (60°-80°)	2260.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	133.4	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°	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7
2.5°	10028.2	9965.9	9778.7	9716.4	9494.6	9092.6	8954.0	8545.1	8371.9	8212.5	8025.4
5°	12682.6	12391.5	12370.7	12017.2	11504.4	11206.4	10319.3	9723.3	9175.8	8898.6	8385.7
7.5°	14373.6	14380.5	14380.5	14089.4	13680.5	12925.1	12128.1	11053.9	10229.2	9820.3	8947.1
10°	15981.4	15842.8	15766.6	15738.8	15461.6	14727.0	13874.6	12543.9	11414.3	10936.1	9369.8
12.5°	17118.0	17000.2	17173.4	17083.3	16882.4	16404.2	15600.2	14082.5	12668.7	12024.2	10049.0
15°	17658.6	17741.7	17880.3	18129.8	18039.7	17859.5	16972.4	15662.6	14020.1	13292.4	10652.0
17.5°	18490.2	18261.5	18427.8	18739.7	18989.2	18906.0	18400.1	16806.1	15357.7	14463.7	11462.8
20°	19072.3	18940.7	19023.8	19384.2	19571.3	20042.6	19779.2	18303.1	16639.8	15697.3	12419.2
22.5°	20735.6	20541.6	20271.3	20326.7	20396.0	20728.7	20791.1	19945.6	18129.8	17131.8	13327.1
25°	22787.0	22606.8	22288.0	21962.3	21761.3	21698.9	21913.8	21234.6	19557.5	18524.8	14304.3
27.5°	25046.3	24741.4	24540.4	23868.2	23327.6	23244.4	23140.5	22773.2	21248.5	20132.7	15406.2
30°	27243.2	27000.7	26730.4	25656.2	25094.8	25004.7	24491.9	24595.8	23085.0	21844.5	16653.6
32.5°	28906.5	28927.3	28310.5	27499.7	26973.0	26494.8	26307.6	26605.6	25441.3	24443.4	18046.7
35°	30251.0	30313.4	29724.3	28989.7	28421.4	28754.1	28670.9	28809.5	28255.1	27035.3	19668.4
37.5°	31560.8	31249.0	30618.3	30264.9	29966.9	30514.4	31221.3	31339.1	31443.0	30008.4	21553.4
40°	31775.7	31803.4	31436.1	31685.6	31311.4	32136.1	33778.6	33626.1	34048.8	32794.5	23597.9
42.5°	31470.8	31533.1	31678.7	32032.1	32933.1	33924.1	36363.6	35739.9	36252.7	35136.9	25586.9
45°	30971.8	30715.3	30895.5	32240.0	33799.4	36003.2	38726.8	38241.7	38075.4	37139.8	27957.1
47.5°	28587.7	28851.1	29412.4	31068.8	33411.3	36363.6	40404.0	40293.1	40792.1	40133.7	30112.4
50°	25281.9	25178.0	26259.1	28123.4	31145.0	35656.7	40313.9	41318.8	42393.0	41478.2	31075.7
52.5°	18933.7	19488.2	20416.8	22731.6	27042.3	31803.4	38345.7	40022.8	40896.0	40702.0	30299.5
55°	11968.7	12135.1	12696.4	15447.8	19328.8	25524.5	32870.7	36758.6	38317.9	39045.6	29585.7
57.5°	5814.6	5502.7	6188.8	8399.6	11164.8	17166.5	25351.2	32018.3	35407.2	36724.0	28033.3
60°	3035.5	3153.3	3423.6	4213.7	5773.0	8912.4	15801.2	21338.6	26515.5	28539.2	21248.5
62.5°	2515.7	2557.3	2737.5	3132.5	3839.4	5128.5	8066.9	10402.5	13521.1	15343.8	12086.5
65°	2134.6	2155.3	2349.4	2612.7	3063.2	3610.7	4151.3	4345.3	5260.1	5398.7	4296.8
67.5°	1781.1	1801.9	2009.8	2259.3	2550.4	2695.9	2834.5	2820.7	2924.6	2883.0	2876.1
70°	1372.2	1393.0	1607.8	1871.2	2016.7	1933.6	2363.3	2460.3	2501.9	2536.5	2592.0
72.5°	991.0	1032.6	1199.0	1386.1	1309.8	1503.9	1947.4	2093.0	2148.4	2169.2	2238.5
75°	720.8	734.6	776.2	720.8	831.6	1046.5	1372.2	1552.4	1621.7	1642.5	1746.5
77.5°	318.8	325.7	332.7	415.8	533.6	651.5	817.8	963.3	1060.3	1088.1	1115.8
80°	166.3	173.3	214.8	284.1	381.2	478.2	596.0	679.2	741.5	748.5	776.2
82.5°	104.0	110.9	152.5	201.0	270.3	353.4	436.6	505.9	554.4	561.4	568.3
85°	48.5	62.4	90.1	124.7	180.2	228.7	235.6	201.0	214.8	221.8	207.9
87.5°	13.9	20.8	27.7	20.8	27.7	27.7	34.7	41.6	41.6	41.6	48.5
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°	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7	7796.7
2.5°	7921.4	7859.0	7616.5	7526.4	7290.7	7332.3	7207.6	7200.6	7172.9	7166.0	7159.1
5°	8115.4	7921.4	7630.3	7408.6	7276.9	7263.0	7172.9	7172.9	7200.6	7221.4	7172.9
7.5°	8434.2	8212.5	7720.4	7512.5	7394.7	7373.9	7311.5	7263.0	7325.4	7304.6	7249.2
10°	8801.6	8413.5	7893.7	7713.5	7519.4	7470.9	7470.9	7491.7	7387.8	7422.4	7367.0
12.5°	9210.4	8690.7	8115.4	7907.5	7678.8	7651.1	7637.3	7484.8	7540.2	7512.5	7373.9
15°	9730.2	9009.5	8399.6	8046.1	7852.1	7727.3	7547.2	7519.4	7484.8	7415.5	7353.1
17.5°	10291.6	9356.0	8531.3	8087.7	7796.7	7706.6	7568.0	7422.4	7318.5	7332.3	7283.8
20°	10769.8	9674.8	8579.8	8129.3	7755.1	7581.8	7367.0	7276.9	7166.0	7159.1	7152.1
22.5°	11338.1	10104.5	8649.1	8018.4	7630.3	7450.1	7304.6	7145.2	7069.0	6971.9	7020.5
25°	12017.2	10270.8	8662.9	7956.1	7540.2	7221.4	7145.2	6971.9	6944.2	6805.6	6833.3
27.5°	12509.3	10360.9	8552.1	7762.0	7332.3	7089.8	6951.1	6826.4	6777.9	6673.9	6646.2
30°	13167.7	10499.5	8316.4	7519.4	7124.4	6854.1	6771.0	6743.2	6604.6	6493.7	6479.9
32.5°	13916.2	10589.6	8164.0	7269.9	6909.6	6701.7	6743.2	6611.6	6438.3	6341.3	6313.6
35°	14512.2	10624.2	7782.8	6985.8	6764.0	6632.4	6583.8	6556.1	6306.6	6216.5	6147.2
37.5°	15420.0	10548.0	7464.0	6784.8	6604.6	6556.1	6514.5	6327.4	6043.3	5911.6	5814.6
40°	16480.4	10527.2	7055.1	6500.7	6452.2	6507.6	6382.9	6091.8	5696.8	5551.2	5481.9
42.5°	17499.2	10672.8	6798.7	6348.2	6285.8	6306.6	6133.4	5696.8	5502.7	5419.5	5308.7
45°	19204.0	10977.7	6375.9	6112.6	6084.9	6071.0	5863.1	5405.7	5294.8	5190.8	5170.0
47.5°	20742.6	10776.7	6105.6	5870.0	5897.7	5821.5	5378.0	5232.4	5107.7	5003.7	4969.1
50°	20832.7	10298.5	5724.5	5682.9	5689.8	5558.1	5135.4	5038.4	4879.0	4809.7	4761.2
52.5°	20361.4	9515.4	5371.0	5384.9	5405.7	5190.8	4837.4	4768.1	4636.4	4539.4	4511.7
55°	19037.7	8295.6	5024.5	5080.0	5135.4	4726.5	4615.6	4442.4	4338.4	4199.8	4206.7
57.5°	16771.5	6680.9	4539.4	4629.5	4747.3	4296.8	4213.7	3998.8	3846.3	3735.5	3721.6
60°	11241.0	4754.2	3811.7	3846.3	4109.7	3929.5	3922.6	3707.7	3499.8	3402.8	3347.4
62.5°	6632.4	3631.5	3291.9	3257.3	3250.3	3354.3	3527.6	3451.3	3181.0	2993.9	3049.4
65°	3472.1	3139.5	3063.2	2945.4	2876.1	2848.4	2980.1	3014.7	2834.5	2633.5	2619.7
67.5°	2917.7	2917.7	2855.3	2813.7	2716.7	2598.9	2515.7	2404.8	2377.1	2321.7	2252.4
70°	2654.3	2723.6	2702.8	2605.8	2522.7	2391.0	2176.1	1995.9	1822.7	1760.3	1801.9
72.5°	2314.7	2384.0	2384.0	2335.5	2224.6	2023.7	1815.8	1607.8	1462.3	1351.4	1337.6
75°	1781.1	1815.8	1898.9	1843.5	1697.9	1573.2	1358.4	1143.5	1004.9	900.9	880.2
77.5°	1136.6	1192.0	1192.0	1185.1	1081.1	963.3	824.7	672.2	568.3	492.1	471.3
80°	755.4	790.1	817.8	790.1	720.8	630.7	526.7	422.8	346.5	284.1	270.3
82.5°	554.4	596.0	616.8	589.1	519.8	450.5	374.2	298.0	221.8	173.3	159.4
85°	214.8	221.8	249.5	298.0	291.1	284.1	228.7	166.3	124.7	90.1	83.2
87.5°	55.4	48.5	55.4	55.4	48.5	41.6	41.6	41.6	41.6	20.8	27.7
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)