

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: P534187

Luminaire Tested: **GALN-SA9C-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29618 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

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



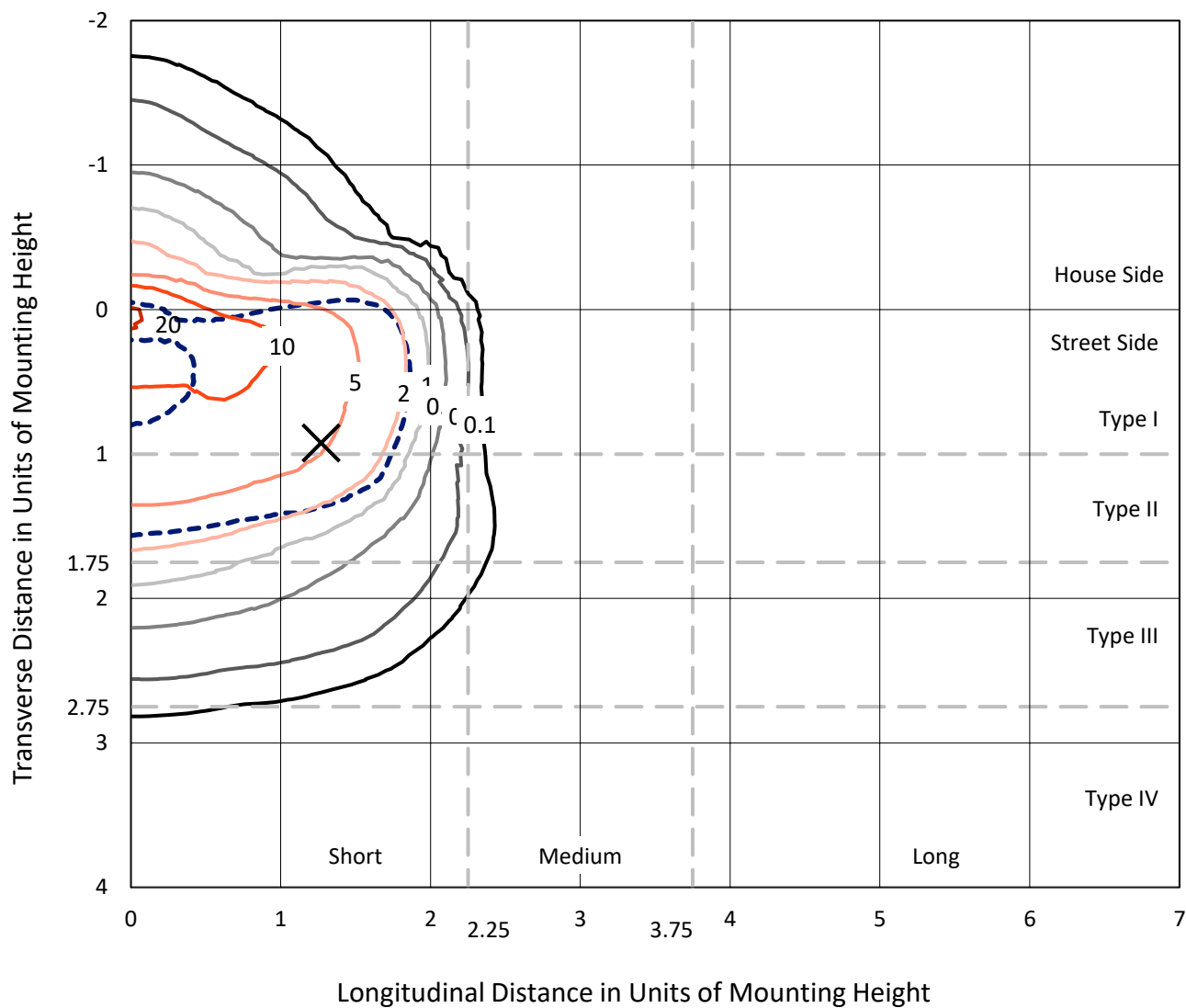
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

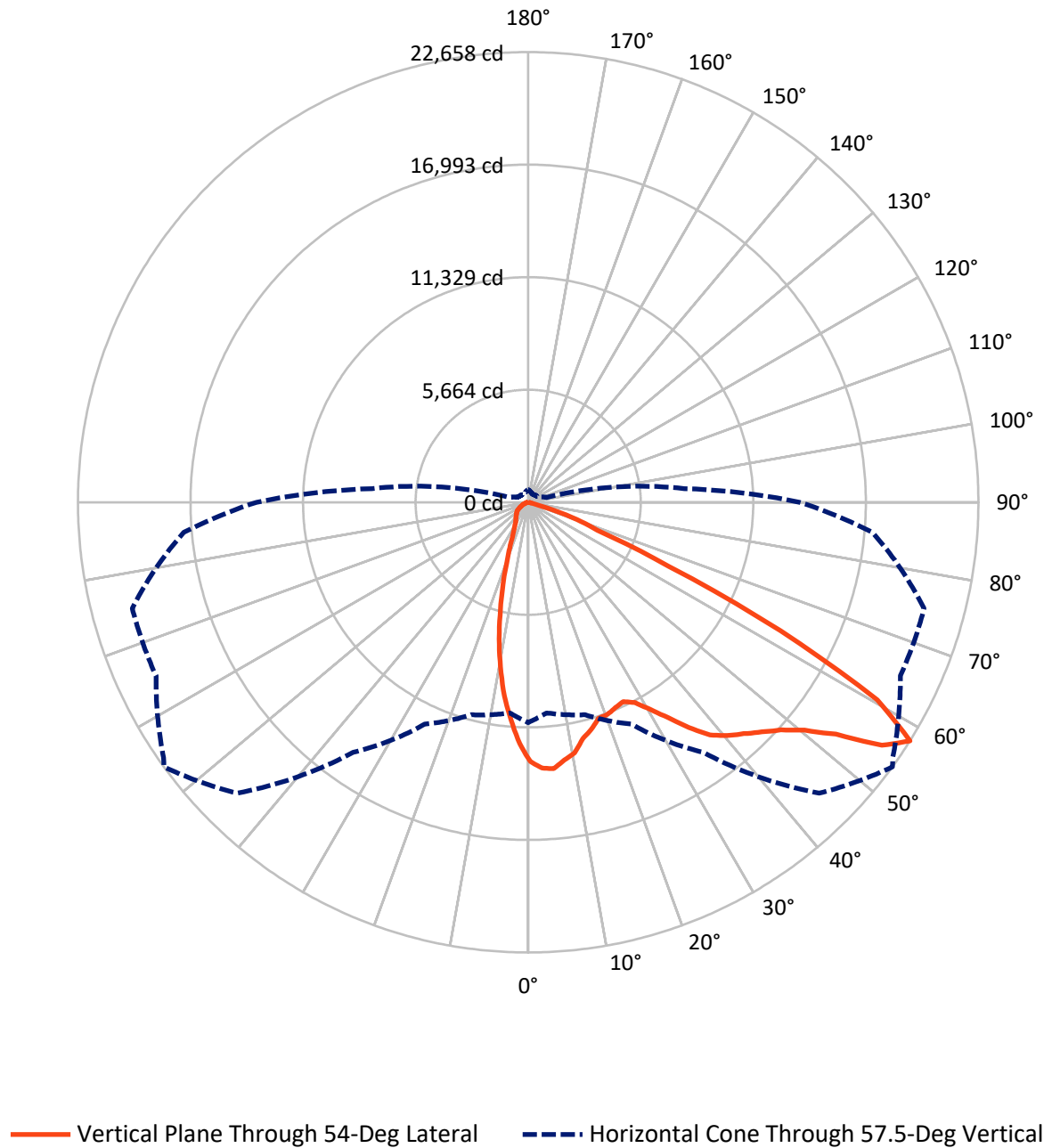


Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4185.5	0.0	4185.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	25432.5	0.0	25432.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	29618.0	0.0	29618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1091.8	3.7
10°-20°	2331.0	7.9
20°-30°	3089.0	10.4
30°-40°	4489.2	15.2
40°-50°	6656.9	22.5
50°-60°	8324.2	28.1
60°-70°	3283.5	11.1
70°-80°	326.9	1.1
80°-90°	25.4	0.1
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°	29618.0	100.0
0°-180°	29618.0	100.0

Coefficient of Utilization



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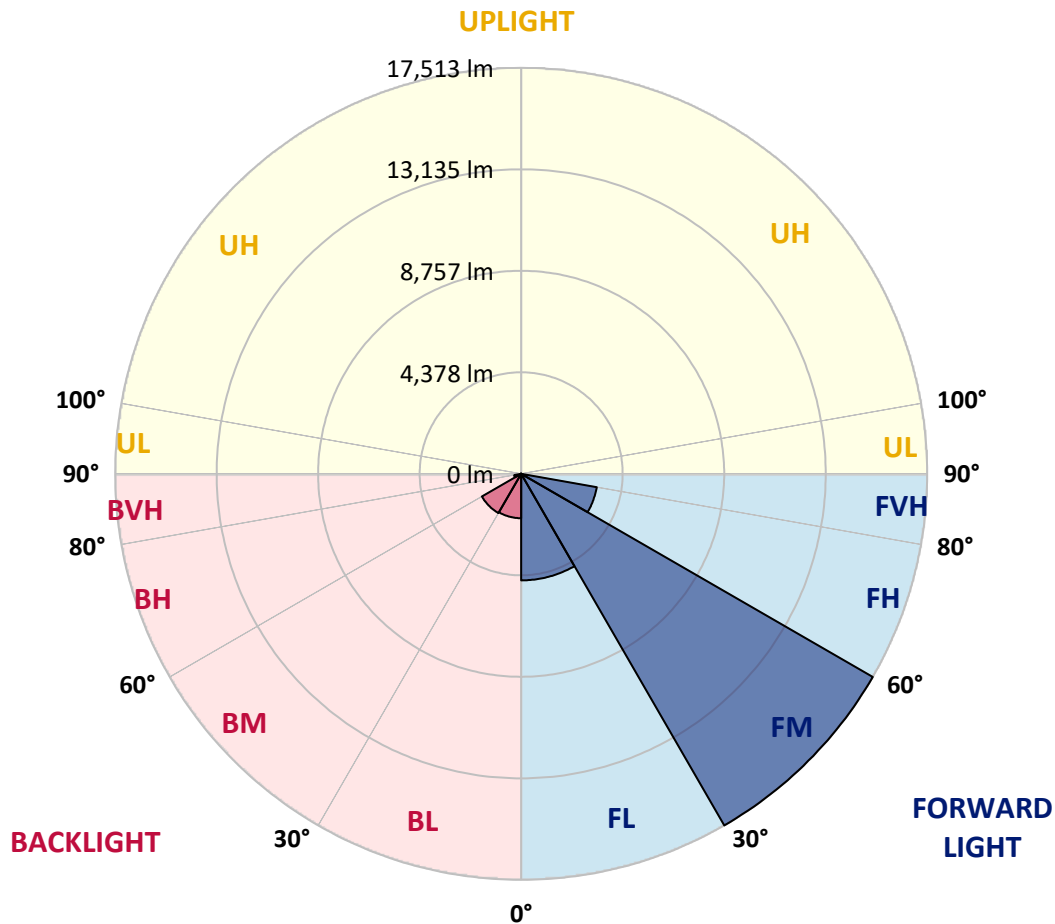
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4597.6	15.5			
FM	(30°-60°)	17513.1	59.1			
FH	(60°-80°)	3310.3	11.2			G2/5000
FVH	(80°-90°)	11.5	0.0			G1/100
BL	(0°-30°)	1914.3	6.5	B3/2500		
BM	(30°-60°)	1957.3	6.6	B2/2500		
BH	(60°-80°)	300.1	1.0	B1/500		G1/500
BVH	(80°-90°)	13.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1
2.5°	13807.2	13664.0	13675.0	13625.4	13559.3	13608.9	13394.1	13443.7	13438.2	13146.3	12953.5
5°	13460.2	13614.4	13454.7	13586.9	13460.2	13597.9	13465.7	13366.6	13206.8	12992.1	12634.1
7.5°	12870.9	12722.2	12766.2	12931.5	12959.0	13267.4	13102.2	13228.9	13162.8	12738.7	12248.5
10°	11686.8	11653.7	11874.0	12094.3	12364.2	12694.7	12821.3	12749.7	12700.2	12540.4	11885.1
12.5°	10778.1	10871.7	10866.2	11229.7	11686.8	11874.0	12204.5	12193.5	12468.8	12171.4	11543.6
15°	9913.4	9963.0	10194.3	10420.1	10926.8	11461.0	11868.5	11923.6	12254.1	12044.8	11279.2
17.5°	9384.7	9313.1	9494.8	9764.7	10282.4	10981.8	11433.4	11565.6	12017.2	11973.2	10976.3
20°	8861.5	8861.5	9010.2	9329.6	9803.2	10590.8	11394.9	11356.3	12017.2	11890.6	10651.4
22.5°	8685.2	8773.4	8811.9	9054.2	9616.0	10293.4	11229.7	11301.3	12110.9	11852.0	10508.2
25°	8927.6	8811.9	8822.9	9015.7	9544.4	10150.2	11108.5	11268.2	12281.6	12044.8	10392.5
27.5°	8966.1	9081.8	9114.8	9247.0	9599.5	10194.3	11411.4	11736.4	12705.7	12496.4	10425.6
30°	9302.1	9417.7	9412.2	9638.0	9880.3	10552.3	12088.8	12154.9	13581.3	13063.7	10629.4
32.5°	9709.6	9830.8	9869.3	10133.7	10326.5	11207.6	12914.9	13085.7	14424.0	13955.9	11163.6
35°	10216.3	10172.2	10348.5	10612.8	11025.9	12165.9	13922.8	14209.2	15332.7	15112.4	11714.3
37.5°	10849.7	10794.6	10965.3	11394.9	11956.7	13300.5	14853.6	15040.8	15993.6	16186.4	12733.2
40°	11295.8	11317.8	11835.5	12413.8	13008.6	14379.9	15442.9	15624.6	16456.2	17188.7	13504.2
42.5°	12039.3	12177.0	12799.3	13504.2	14126.6	15189.5	15922.0	16098.3	16671.0	17992.8	14545.2
45°	13118.7	13058.1	13746.6	14534.1	15222.6	16032.2	16489.3	16428.7	16797.7	18791.4	15200.5
47.5°	14506.6	14517.6	14974.7	15646.6	16362.6	16764.7	17122.6	16907.8	17062.1	19634.0	16076.2
50°	15453.9	15536.5	15905.5	16593.9	16951.9	17568.7	18025.9	17893.7	17844.1	20140.7	16627.0
52.5°	15696.2	15944.0	16142.3	17001.5	17838.6	18813.4	19397.2	19678.1	18796.9	20311.4	17326.4
55°	13867.7	14088.0	14787.5	15966.1	18174.6	20785.1	21589.2	21594.7	20041.6	21071.5	17816.6
57.5°	11086.5	10640.4	11070.0	12320.1	15365.8	20702.5	22657.6	22398.8	20663.9	20625.4	17392.5
60°	7666.4	7556.2	7583.7	8079.4	10634.9	16467.2	20190.3	20526.2	19028.2	17877.2	13768.6
62.5°	6074.7	5981.1	5859.9	5804.8	6603.4	10260.4	14242.2	14715.9	13306.0	11593.2	8162.0
65°	4758.4	4703.4	4719.9	4940.2	4934.7	5821.4	7787.5	7594.8	6080.2	4494.1	2566.5
67.5°	3210.8	3293.4	3359.5	4025.9	4367.4	4053.5	3761.6	3651.4	1977.2	831.6	567.3
70°	1806.4	1817.5	1889.1	2516.9	3315.5	3144.7	2594.0	2594.0	985.8	302.9	324.9
72.5°	985.8	952.8	886.7	1085.0	1476.0	1498.0	1156.6	1007.9	291.9	198.3	181.7
75°	479.1	473.6	407.6	336.0	319.4	264.4	203.8	187.3	132.2	126.7	110.1
77.5°	99.1	93.6	49.6	49.6	55.1	60.6	77.1	77.1	93.6	93.6	77.1
80°	0.0	0.0	5.5	22.0	38.6	55.1	66.1	66.1	77.1	77.1	60.6
82.5°	0.0	0.0	5.5	16.5	33.0	49.6	60.6	66.1	77.1	82.6	66.1
85°	0.0	0.0	0.0	11.0	27.5	38.6	33.0	33.0	27.5	22.0	11.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1	13047.1
2.5°	12854.4	12843.4	12590.0	12446.8	12188.0	11962.2	11780.4	11648.2	11648.2	11565.6	11488.5
5°	12490.9	12397.2	11857.5	11510.6	11020.4	10656.9	10409.1	10216.3	9913.4	9996.0	9671.1
7.5°	12039.3	11802.4	11086.5	10557.8	9880.3	9362.6	8833.9	8365.8	7914.2	7710.4	7820.6
10°	11554.6	11141.6	10177.8	9340.6	8498.0	7550.7	6933.9	6184.9	5722.2	5694.7	5573.5
12.5°	11042.4	10574.3	9401.2	8244.6	7137.6	5997.6	5055.8	4356.4	4042.5	3695.5	3761.6
15°	10656.9	9963.0	8536.5	7143.2	5672.7	4521.6	3574.3	3034.6	2737.2	2654.6	2627.0
17.5°	10238.3	9494.8	7655.3	5970.1	4450.0	3254.9	2572.0	2313.1	2197.5	2197.5	2180.9
20°	9803.2	8966.1	6779.7	4879.6	3337.5	2428.8	2059.8	1977.2	1971.7	1966.2	1966.2
22.5°	9516.9	8360.3	5986.6	3877.2	2516.9	1944.1	1789.9	1756.9	1778.9	1845.0	1845.0
25°	9213.9	7776.5	5110.9	2990.5	1949.6	1668.8	1580.6	1602.7	1657.7	1718.3	1696.3
27.5°	8905.5	7396.5	4284.8	2346.2	1597.2	1459.5	1426.4	1476.0	1536.6	1591.7	1575.1
30°	8833.9	6988.9	3502.7	1778.9	1371.4	1272.2	1294.2	1338.3	1398.9	1420.9	1442.9
32.5°	8944.1	6669.5	2869.4	1459.5	1195.1	1167.6	1167.6	1189.6	1228.2	1277.7	1261.2
35°	9258.0	6487.8	2269.1	1266.7	1096.0	1068.4	1062.9	1085.0	1107.0	1123.5	1107.0
37.5°	9737.2	6344.6	1856.0	1123.5	1029.9	985.8	974.8	969.3	991.3	996.8	1007.9
40°	10348.5	6421.7	1575.1	1035.4	963.8	914.2	881.2	881.2	881.2	897.7	903.2
42.5°	11009.4	6526.3	1360.3	985.8	903.2	842.6	809.6	798.6	809.6	831.6	826.1
45°	11703.3	6730.1	1222.7	908.7	848.1	771.0	727.0	716.0	743.5	787.6	782.1
47.5°	12353.2	7022.0	1118.0	859.2	793.1	721.5	666.4	655.4	705.0	765.5	771.0
50°	13003.1	7528.7	1079.5	820.6	754.5	671.9	622.3	611.3	666.4	743.5	760.0
52.5°	13752.1	8073.9	1051.9	771.0	710.5	633.4	578.3	567.3	627.8	727.0	732.5
55°	14242.2	8536.5	1029.9	682.9	627.8	572.8	528.7	523.2	589.3	677.4	699.4
57.5°	13669.5	7892.2	952.8	594.8	534.2	506.7	468.1	468.1	523.2	605.8	622.3
60°	10365.0	5193.5	677.4	479.1	451.6	435.1	418.6	418.6	462.6	523.2	528.7
62.5°	6069.2	2797.8	435.1	385.5	385.5	369.0	341.5	341.5	385.5	418.6	424.1
65°	1800.9	897.7	352.5	330.4	324.9	297.4	269.9	264.4	297.4	313.9	308.4
67.5°	517.7	413.1	291.9	275.4	269.9	225.8	209.3	203.8	209.3	198.3	192.8
70°	308.4	280.9	225.8	231.3	203.8	165.2	148.7	143.2	132.2	115.7	104.6
72.5°	170.7	170.7	165.2	176.2	143.2	110.1	93.6	77.1	60.6	49.6	44.1
75°	104.6	110.1	115.7	121.2	93.6	71.6	60.6	38.6	22.0	11.0	11.0
77.5°	71.6	77.1	82.6	88.1	77.1	66.1	49.6	27.5	5.5	0.0	0.0
80°	55.1	60.6	71.6	77.1	82.6	88.1	66.1	27.5	5.5	0.0	0.0
82.5°	60.6	66.1	82.6	77.1	77.1	77.1	60.6	27.5	5.5	0.0	0.0
85°	11.0	16.5	27.5	27.5	38.6	49.6	38.6	11.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)