

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: P533485

Luminaire Tested: **GALN-SA8D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533485
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-SA8D-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA 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: 29029 lumens
Efficiency: N/A
Efficacy: 58.9 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): 493
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

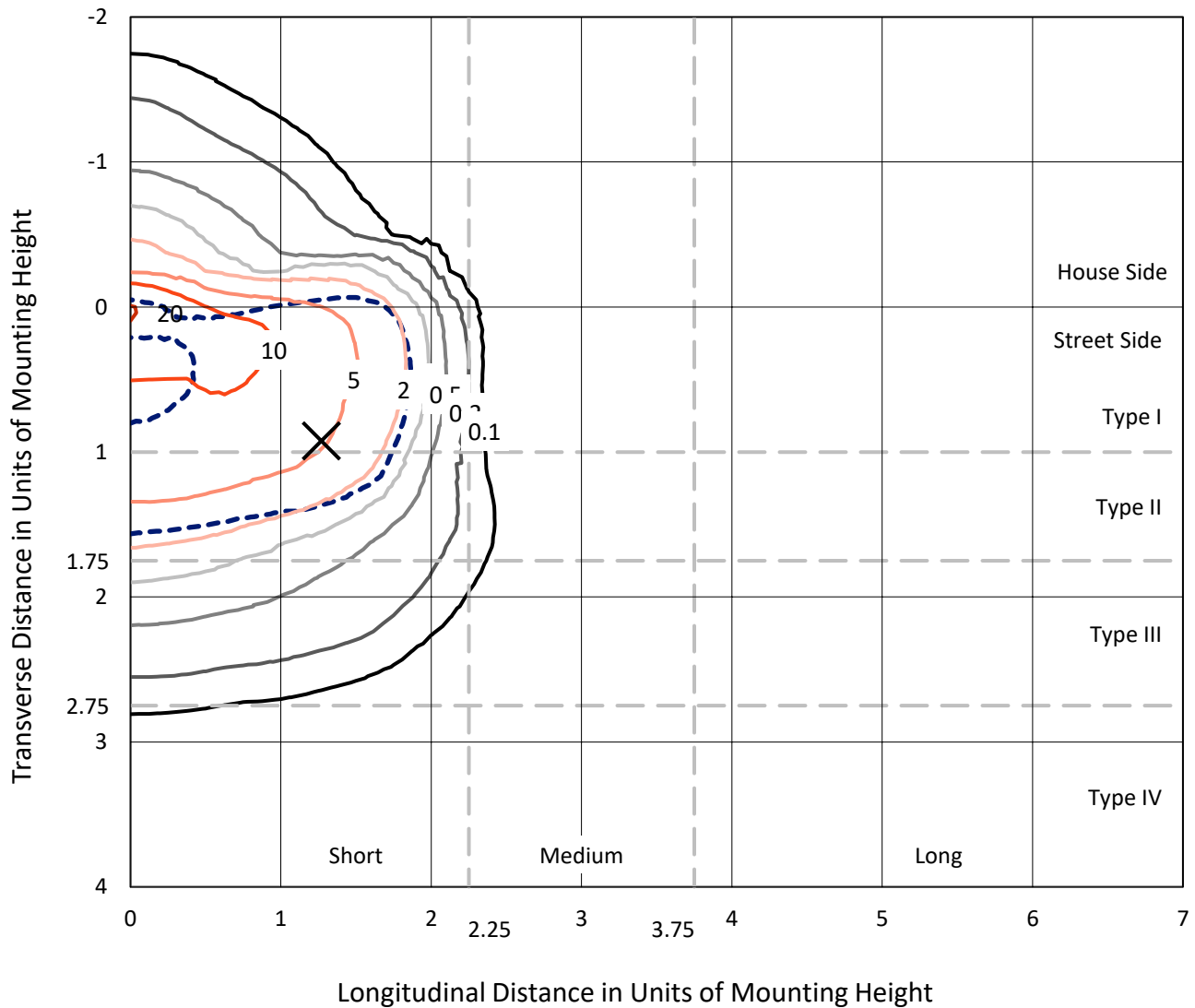


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

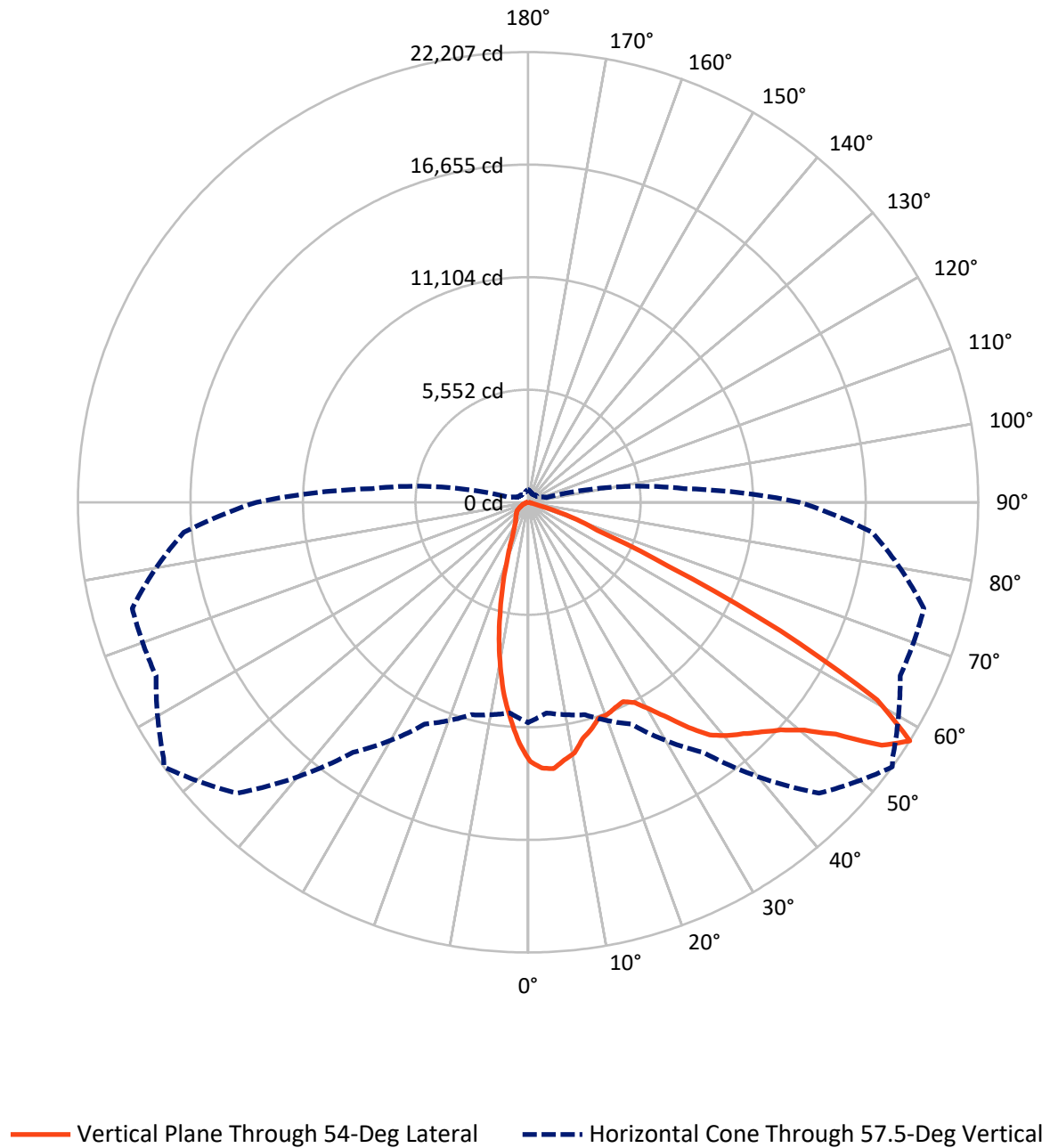


Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4102.3	0.0	4102.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	24926.7	0.0	24926.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	29029.0	0.0	29029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1070.1	3.7
10°-20°	2284.6	7.9
20°-30°	3027.6	10.4
30°-40°	4400.0	15.2
40°-50°	6524.5	22.5
50°-60°	8158.6	28.1
60°-70°	3218.2	11.1
70°-80°	320.4	1.1
80°-90°	24.9	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°	29029.0	100.0
0°-180°	29029.0	100.0

Coefficient of Utilization



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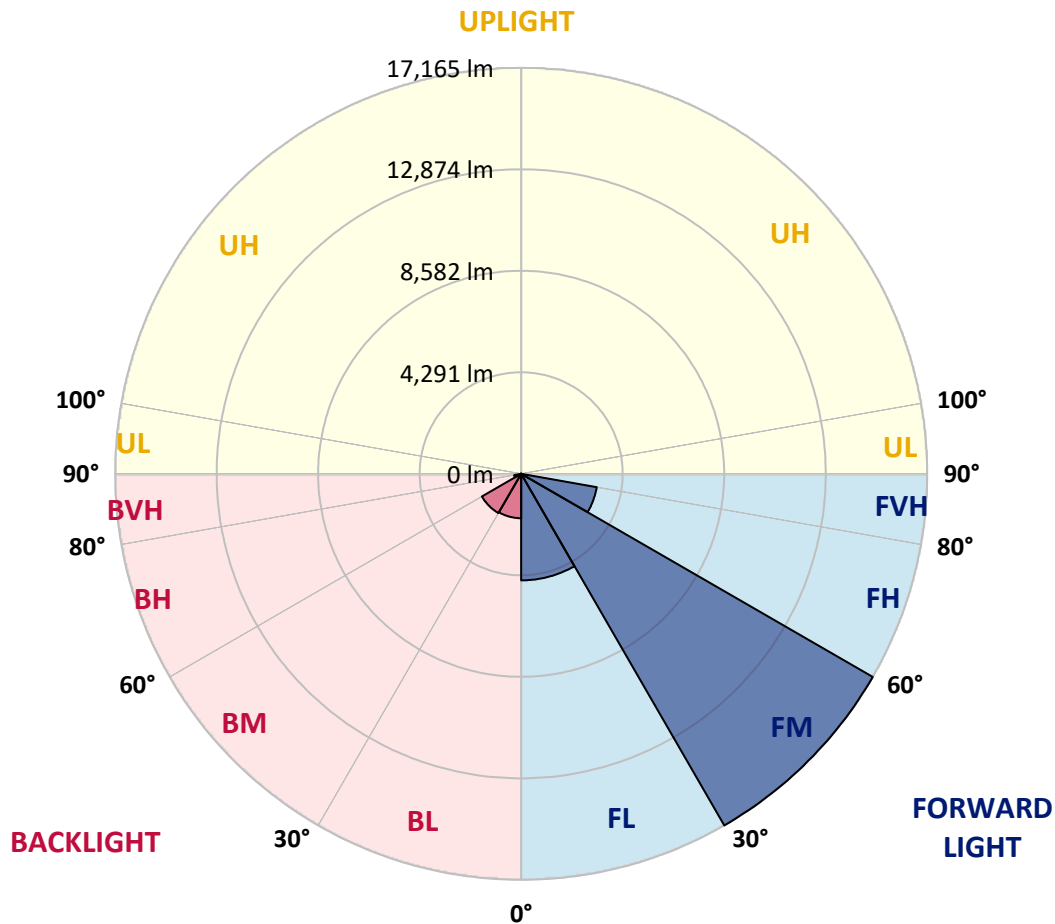
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4506.1	15.5			
FM	(30°-60°)	17164.8	59.1			
FH	(60°-80°)	3244.5	11.2			G2/5000
FVH	(80°-90°)	11.3	0.0			G1/100
BL	(0°-30°)	1876.2	6.5	B3/2500		
BM	(30°-60°)	1918.3	6.6	B2/2500		
BH	(60°-80°)	294.2	1.0	B1/500		G1/500
BVH	(80°-90°)	13.6	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°	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7
2.5°	13532.6	13392.2	13403.0	13354.4	13289.7	13338.3	13127.7	13176.3	13170.9	12884.8	12695.9
5°	13192.5	13343.7	13187.1	13316.7	13192.5	13327.5	13197.9	13100.7	12944.2	12733.7	12382.8
7.5°	12614.9	12469.2	12512.4	12674.3	12701.3	13003.6	12841.6	12965.8	12901.0	12485.4	12005.0
10°	11454.4	11422.0	11637.9	11853.8	12118.3	12442.2	12566.4	12496.2	12447.6	12291.1	11648.7
12.5°	10563.7	10655.5	10650.1	11006.4	11454.4	11637.9	11961.8	11951.0	12220.9	11929.4	11314.0
15°	9716.3	9764.8	9991.5	10212.9	10709.5	11233.1	11632.5	11686.5	12010.4	11805.2	11054.9
17.5°	9198.1	9127.9	9306.0	9570.5	10077.9	10763.4	11206.1	11335.6	11778.3	11735.1	10758.0
20°	8685.2	8685.2	8831.0	9144.1	9608.3	10380.2	11168.3	11130.5	11778.3	11654.1	10439.6
22.5°	8512.5	8598.9	8636.7	8874.2	9424.8	10088.7	11006.4	11076.5	11870.0	11616.3	10299.2
25°	8750.0	8636.7	8647.5	8836.4	9354.6	9948.4	10887.6	11044.1	12037.4	11805.2	10185.9
27.5°	8787.8	8901.2	8933.6	9063.1	9408.6	9991.5	11184.5	11503.0	12453.0	12247.9	10218.3
30°	9117.1	9230.4	9225.0	9446.4	9683.9	10342.4	11848.4	11913.2	13311.3	12803.9	10418.0
32.5°	9516.5	9635.3	9673.1	9932.2	10121.1	10984.8	12658.1	12825.5	14137.1	13678.3	10941.6
35°	10013.1	9970.0	10142.7	10401.8	10806.6	11924.0	13645.9	13926.6	15027.8	14811.9	11481.4
37.5°	10633.9	10579.9	10747.3	11168.3	11718.9	13036.0	14558.2	14741.7	15675.6	15864.5	12480.0
40°	11071.1	11092.7	11600.1	12166.9	12749.9	14094.0	15135.8	15313.9	16129.0	16846.9	13235.7
42.5°	11799.8	11934.8	12544.8	13235.7	13845.7	14887.5	15605.4	15778.1	16339.5	17635.0	14255.9
45°	12857.8	12798.5	13473.2	14245.1	14919.8	15713.3	16161.4	16102.0	16463.6	18417.7	14898.3
47.5°	14218.1	14228.9	14676.9	15335.5	16037.2	16431.3	16782.1	16571.6	16722.7	19243.6	15756.5
50°	15146.6	15227.5	15589.2	16263.9	16614.8	17219.4	17667.4	17537.8	17489.3	19740.2	16296.3
52.5°	15384.1	15627.0	15821.3	16663.4	17483.9	18439.3	19011.5	19286.8	18423.1	19907.5	16981.8
55°	13592.0	13807.9	14493.4	15648.6	17813.1	20371.7	21159.8	21165.2	19643.0	20652.4	17462.3
57.5°	10866.0	10428.8	10849.8	12075.1	15060.2	20290.8	22207.0	21953.3	20253.0	20215.2	17046.6
60°	7513.9	7405.9	7432.9	7918.7	10423.4	16139.8	19788.8	20118.0	18649.8	17521.6	13494.8
62.5°	5953.9	5862.1	5743.4	5689.4	6472.1	10056.3	13959.0	14423.2	13041.4	11362.6	7999.7
65°	4663.8	4609.8	4626.0	4841.9	4836.5	5705.6	7632.7	7443.7	5959.3	4404.7	2515.4
67.5°	3147.0	3228.0	3292.7	3945.9	4280.5	3972.9	3686.8	3578.8	1937.9	815.1	556.0
70°	1770.5	1781.3	1851.5	2466.8	3249.5	3082.2	2542.4	2542.4	966.2	296.9	318.5
72.5°	966.2	933.8	869.1	1063.4	1446.6	1468.2	1133.6	987.8	286.1	194.3	178.1
75°	469.6	464.2	399.4	329.3	313.1	259.1	199.7	183.5	129.6	124.2	108.0
77.5°	97.2	91.8	48.6	48.6	54.0	59.4	75.6	75.6	91.8	91.8	75.6
80°	0.0	0.0	5.4	21.6	37.8	54.0	64.8	64.8	75.6	75.6	59.4
82.5°	0.0	0.0	5.4	16.2	32.4	48.6	59.4	64.8	75.6	81.0	64.8
85°	0.0	0.0	0.0	10.8	27.0	37.8	32.4	32.4	27.0	21.6	10.8
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°	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7	12787.7
2.5°	12598.7	12587.9	12339.6	12199.3	11945.6	11724.3	11546.1	11416.6	11416.6	11335.6	11260.1
5°	12242.5	12150.7	11621.7	11281.6	10801.2	10445.0	10202.1	10013.1	9716.3	9797.2	9478.7
7.5°	11799.8	11567.7	10866.0	10347.8	9683.9	9176.5	8658.3	8199.4	7756.8	7557.1	7665.0
10°	11324.8	10920.0	9975.4	9154.9	8329.0	7400.5	6796.0	6061.9	5608.4	5581.4	5462.7
12.5°	10822.8	10364.0	9214.2	8080.7	6995.7	5878.3	4955.3	4269.8	3962.1	3622.0	3686.8
15°	10445.0	9764.8	8366.8	7001.1	5559.9	4431.7	3503.2	2974.3	2682.8	2601.8	2574.8
17.5°	10034.7	9306.0	7503.1	5851.3	4361.5	3190.2	2520.8	2267.1	2153.8	2153.8	2137.6
20°	9608.3	8787.8	6644.8	4782.6	3271.1	2380.5	2018.8	1937.9	1932.5	1927.1	1927.1
22.5°	9327.6	8194.0	5867.5	3800.1	2466.8	1905.5	1754.3	1721.9	1743.5	1808.3	1808.3
25°	9030.7	7621.9	5009.3	2931.1	1910.9	1635.6	1549.2	1570.8	1624.8	1684.2	1662.6
27.5°	8728.4	7249.4	4199.6	2299.5	1565.4	1430.4	1398.1	1446.6	1506.0	1560.0	1543.8
30°	8658.3	6850.0	3433.1	1743.5	1344.1	1246.9	1268.5	1311.7	1371.1	1392.7	1414.3
32.5°	8766.2	6536.9	2812.3	1430.4	1171.3	1144.4	1144.4	1166.0	1203.7	1252.3	1236.1
35°	9073.9	6358.7	2223.9	1241.5	1074.2	1047.2	1041.8	1063.4	1085.0	1101.2	1085.0
37.5°	9543.5	6218.4	1819.1	1101.2	1009.4	966.2	955.4	950.0	971.6	977.0	987.8
40°	10142.7	6294.0	1543.8	1014.8	944.6	896.1	863.7	863.7	863.7	879.9	885.3
42.5°	10790.4	6396.5	1333.3	966.2	885.3	825.9	793.5	782.7	793.5	815.1	809.7
45°	11470.6	6596.3	1198.3	890.7	831.3	755.7	712.5	701.7	728.7	771.9	766.5
47.5°	12107.5	6882.3	1095.8	842.1	777.3	707.1	653.1	642.4	690.9	750.3	755.7
50°	12744.5	7379.0	1058.0	804.3	739.5	658.5	610.0	599.2	653.1	728.7	744.9
52.5°	13478.6	7913.3	1031.0	755.7	696.3	620.8	566.8	556.0	615.4	712.5	717.9
55°	13959.0	8366.8	1009.4	669.3	615.4	561.4	518.2	512.8	577.6	663.9	685.5
57.5°	13397.6	7735.2	933.8	583.0	523.6	496.6	458.8	458.8	512.8	593.8	610.0
60°	10158.9	5090.2	663.9	469.6	442.6	426.4	410.2	410.2	453.4	512.8	518.2
62.5°	5948.5	2742.1	426.4	377.9	377.9	361.7	334.7	334.7	377.9	410.2	415.6
65°	1765.1	879.9	345.5	323.9	318.5	291.5	264.5	259.1	291.5	307.7	302.3
67.5°	507.4	404.8	286.1	269.9	264.5	221.3	205.1	199.7	205.1	194.3	188.9
70°	302.3	275.3	221.3	226.7	199.7	161.9	145.7	140.3	129.6	113.4	102.6
72.5°	167.3	167.3	161.9	172.7	140.3	108.0	91.8	75.6	59.4	48.6	43.2
75°	102.6	108.0	113.4	118.8	91.8	70.2	59.4	37.8	21.6	10.8	10.8
77.5°	70.2	75.6	81.0	86.4	75.6	64.8	48.6	27.0	5.4	0.0	0.0
80°	54.0	59.4	70.2	75.6	81.0	86.4	64.8	27.0	5.4	0.0	0.0
82.5°	59.4	64.8	81.0	75.6	75.6	75.6	59.4	27.0	5.4	0.0	0.0
85°	10.8	16.2	27.0	27.0	37.8	48.6	37.8	10.8	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)