

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: P532549

Luminaire Tested: **GALN-SA7D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532549
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-SA7D-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 25040 lumens
Efficiency: N/A
Efficacy: 57.8 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): 433
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

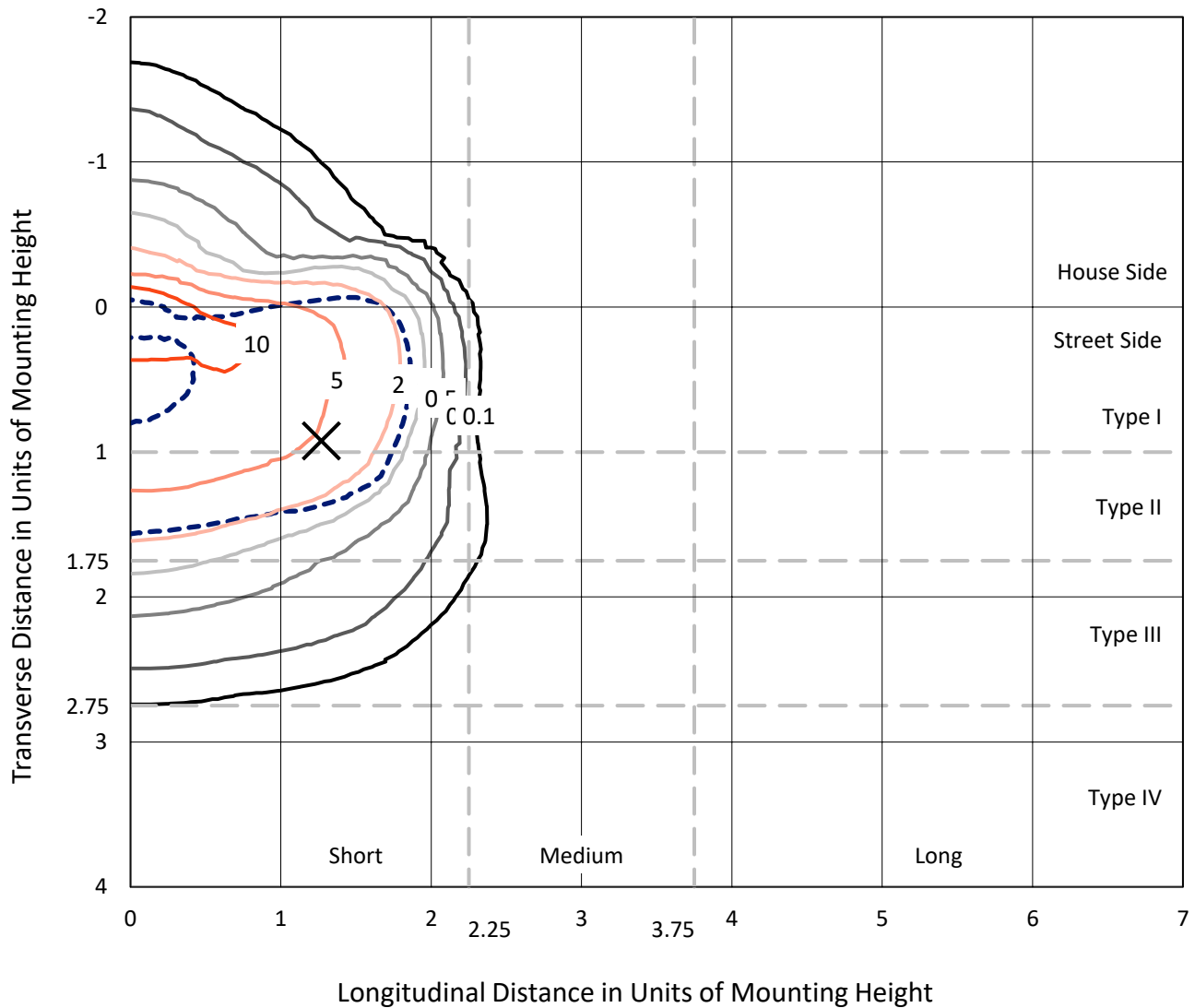


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

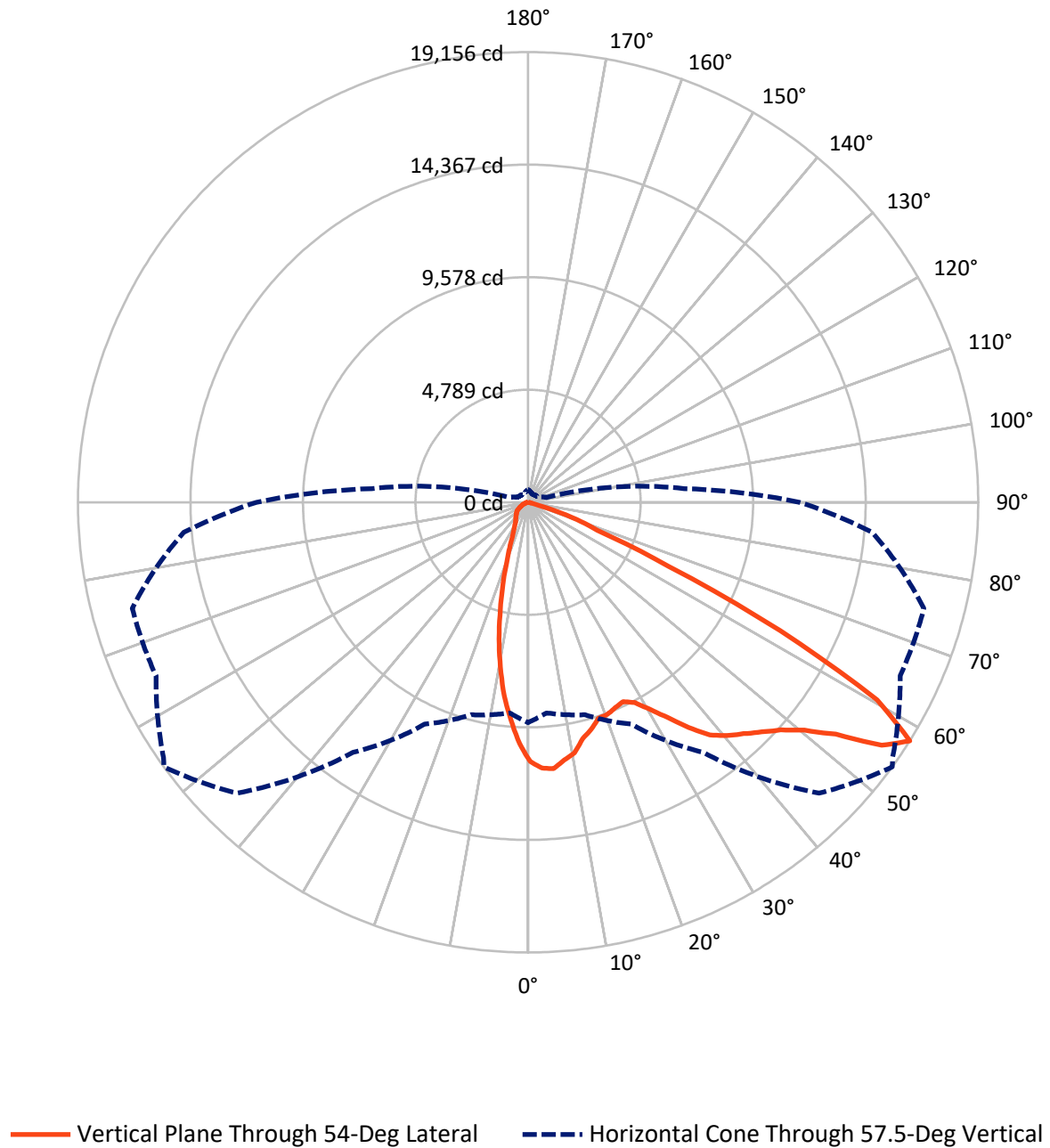


Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3538.6	0.0	3538.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	21501.4	0.0	21501.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	25040.0	0.0	25040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.1	3.7
10°-20°	1970.7	7.9
20°-30°	2611.6	10.4
30°-40°	3795.3	15.2
40°-50°	5628.0	22.5
50°-60°	7037.5	28.1
60°-70°	2776.0	11.1
70°-80°	276.4	1.1
80°-90°	21.5	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°	25040.0	100.0
0°-180°	25040.0	100.0

Coefficient of Utilization



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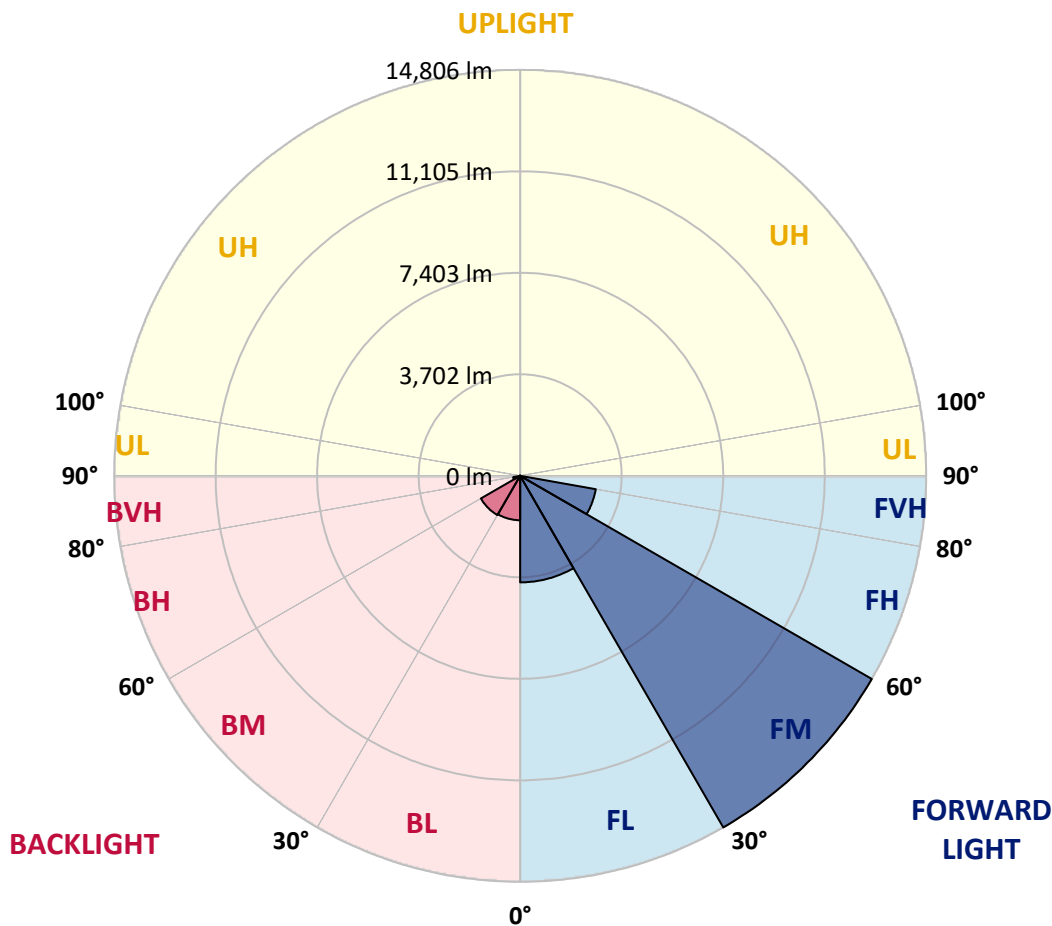
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3886.9	15.5			
FM	(30°-60°)	14806.1	59.1			
FH	(60°-80°)	2798.6	11.2			G2/5000
FVH	(80°-90°)	9.8	0.0			G0/10
BL	(0°-30°)	1618.4	6.5	B3/2500		
BM	(30°-60°)	1654.7	6.6	B2/2500		
BH	(60°-80°)	253.7	1.0	B1/500		G1/500
BVH	(80°-90°)	11.7	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°	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5
2.5°	11673.0	11551.9	11561.3	11519.4	11463.5	11505.4	11323.8	11365.7	11361.0	11114.3	10951.3
5°	11379.7	11510.0	11375.0	11486.8	11379.7	11496.1	11384.3	11300.5	11165.5	10983.9	10681.2
7.5°	10881.5	10755.7	10793.0	10932.7	10956.0	11216.7	11077.0	11184.1	11128.2	10769.7	10355.3
10°	9880.4	9852.4	10038.7	10224.9	10453.1	10732.5	10839.6	10779.0	10737.1	10602.1	10048.0
12.5°	9112.1	9191.3	9186.6	9493.9	9880.4	10038.7	10318.1	10308.8	10541.6	10290.1	9759.3
15°	8381.1	8423.0	8618.6	8809.5	9237.8	9689.5	10034.0	10080.6	10360.0	10183.0	9535.8
17.5°	7934.1	7873.6	8027.2	8255.4	8693.1	9284.4	9666.2	9777.9	10159.8	10122.5	9279.7
20°	7491.8	7491.8	7617.5	7887.5	8288.0	8953.8	9633.6	9601.0	10159.8	10052.7	9005.0
22.5°	7342.8	7417.3	7449.9	7654.7	8129.7	8702.4	9493.9	9554.5	10238.9	10020.1	8884.0
25°	7547.6	7449.9	7459.2	7622.1	8069.1	8581.3	9391.5	9526.5	10383.3	10183.0	8786.2
27.5°	7580.2	7678.0	7706.0	7817.7	8115.7	8618.6	9647.6	9922.3	10741.8	10564.8	8814.1
30°	7864.3	7962.0	7957.4	8148.3	8353.2	8921.2	10220.3	10276.2	11482.1	11044.4	8986.4
32.5°	8208.8	8311.3	8343.8	8567.3	8730.3	9475.3	10918.7	11063.1	12194.5	11798.7	9438.0
35°	8637.2	8599.9	8748.9	8972.4	9321.6	10285.5	11770.8	12012.9	12962.8	12776.5	9903.7
37.5°	9172.6	9126.1	9270.4	9633.6	10108.5	11244.6	12557.7	12716.0	13521.5	13684.5	10765.1
40°	9549.8	9568.4	10006.1	10495.0	10997.9	12157.2	13055.9	13209.5	13912.6	14531.9	11416.9
42.5°	10178.4	10294.8	10820.9	11416.9	11943.1	12841.7	13461.0	13610.0	14094.2	15211.7	12296.9
45°	11091.0	11039.8	11621.8	12287.6	12869.6	13554.1	13940.6	13889.3	14201.3	15886.8	12851.0
47.5°	12264.3	12273.7	12660.1	13228.2	13833.5	14173.4	14476.0	14294.4	14424.8	16599.2	13591.3
50°	13065.2	13135.0	13447.0	14029.0	14331.7	14853.2	15239.6	15127.9	15086.0	17027.6	14057.0
52.5°	13270.1	13479.6	13647.2	14373.6	15081.3	15905.5	16399.0	16636.5	15891.5	17171.9	14648.3
55°	11724.2	11910.5	12501.8	13498.2	15365.3	17572.4	18252.2	18256.8	16943.8	17814.5	15062.7
57.5°	9372.9	8995.7	9358.9	10415.8	12990.7	17502.5	19155.5	18936.6	17469.9	17437.3	14704.2
60°	6481.4	6388.3	6411.5	6830.6	8991.1	13921.9	17069.5	17353.5	16087.1	15113.9	11640.4
62.5°	5135.8	5056.6	4954.2	4907.6	5582.7	8674.4	12040.8	12441.3	11249.3	9801.2	6900.4
65°	4022.9	3976.4	3990.3	4176.6	4171.9	4921.6	6583.8	6420.9	5140.4	3799.4	2169.8
67.5°	2714.5	2784.4	2840.3	3403.7	3692.3	3426.9	3180.2	3087.0	1671.6	703.1	479.6
70°	1527.2	1536.5	1597.1	2127.9	2803.0	2658.7	2193.1	2193.1	833.5	256.1	274.7
72.5°	833.5	805.5	749.6	917.3	1247.9	1266.5	977.8	852.1	246.8	167.6	153.7
75°	405.1	400.4	344.6	284.0	270.1	223.5	172.3	158.3	111.7	107.1	93.1
77.5°	83.8	79.2	41.9	41.9	46.6	51.2	65.2	65.2	79.2	79.2	65.2
80°	0.0	0.0	4.7	18.6	32.6	46.6	55.9	55.9	65.2	65.2	51.2
82.5°	0.0	0.0	4.7	14.0	27.9	41.9	51.2	55.9	65.2	69.8	55.9
85°	0.0	0.0	0.0	9.3	23.3	32.6	27.9	27.9	23.3	18.6	9.3
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°	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5	11030.5
2.5°	10867.5	10858.2	10644.0	10522.9	10304.1	10113.2	9959.5	9847.8	9847.8	9777.9	9712.8
5°	10560.2	10481.0	10024.7	9731.4	9317.0	9009.7	8800.2	8637.2	8381.1	8450.9	8176.2
7.5°	10178.4	9978.2	9372.9	8925.9	8353.2	7915.5	7468.5	7072.7	6690.9	6518.6	6611.8
10°	9768.6	9419.4	8604.6	7896.9	7184.5	6383.6	5862.1	5228.9	4837.8	4814.5	4712.0
12.5°	9335.6	8939.8	7948.1	6970.3	6034.4	5070.6	4274.4	3683.0	3417.6	3124.3	3180.2
15°	9009.7	8423.0	7217.1	6039.0	4795.9	3822.7	3021.9	2565.5	2314.1	2244.3	2221.0
17.5°	8655.8	8027.2	6472.1	5047.3	3762.2	2751.8	2174.4	1955.6	1857.8	1857.8	1843.8
20°	8288.0	7580.2	5731.7	4125.4	2821.6	2053.4	1741.4	1671.6	1666.9	1662.3	1662.3
22.5°	8045.9	7068.1	5061.3	3277.9	2127.9	1643.6	1513.3	1485.3	1503.9	1559.8	1559.8
25°	7789.8	6574.5	4320.9	2528.3	1648.3	1410.8	1336.3	1354.9	1401.5	1452.7	1434.1
27.5°	7529.0	6253.2	3622.5	1983.5	1350.3	1233.9	1205.9	1247.9	1299.1	1345.6	1331.7
30°	7468.5	5908.7	2961.3	1503.9	1159.4	1075.6	1094.2	1131.4	1182.7	1201.3	1219.9
32.5°	7561.6	5638.6	2425.9	1233.9	1010.4	987.1	987.1	1005.7	1038.3	1080.2	1066.3
35°	7827.0	5485.0	1918.3	1070.9	926.6	903.3	898.6	917.3	935.9	949.9	935.9
37.5°	8232.1	5363.9	1569.1	949.9	870.7	833.5	824.1	819.5	838.1	842.8	852.1
40°	8748.9	5429.1	1331.7	875.4	814.8	772.9	745.0	745.0	745.0	759.0	763.6
42.5°	9307.7	5517.6	1150.1	833.5	763.6	712.4	684.5	675.1	684.5	703.1	698.4
45°	9894.4	5689.8	1033.7	768.3	717.0	651.9	614.6	605.3	628.6	665.8	661.2
47.5°	10443.8	5936.6	945.2	726.4	670.5	610.0	563.4	554.1	596.0	647.2	651.9
50°	10993.2	6365.0	912.6	693.8	637.9	568.1	526.1	516.8	563.4	628.6	642.6
52.5°	11626.4	6825.9	889.3	651.9	600.6	535.5	488.9	479.6	530.8	614.6	619.3
55°	12040.8	7217.1	870.7	577.4	530.8	484.2	447.0	442.3	498.2	572.7	591.3
57.5°	11556.6	6672.3	805.5	502.9	451.6	428.4	395.8	395.8	442.3	512.2	526.1
60°	8762.9	4390.8	572.7	405.1	381.8	367.8	353.9	353.9	391.1	442.3	447.0
62.5°	5131.1	2365.3	367.8	325.9	325.9	312.0	288.7	288.7	325.9	353.9	358.5
65°	1522.6	759.0	298.0	279.4	274.7	251.4	228.2	223.5	251.4	265.4	260.7
67.5°	437.7	349.2	246.8	232.8	228.2	190.9	176.9	172.3	176.9	167.6	163.0
70°	260.7	237.5	190.9	195.6	172.3	139.7	125.7	121.1	111.7	97.8	88.5
72.5°	144.3	144.3	139.7	149.0	121.1	93.1	79.2	65.2	51.2	41.9	37.2
75°	88.5	93.1	97.8	102.4	79.2	60.5	51.2	32.6	18.6	9.3	9.3
77.5°	60.5	65.2	69.8	74.5	65.2	55.9	41.9	23.3	4.7	0.0	0.0
80°	46.6	51.2	60.5	65.2	69.8	74.5	55.9	23.3	4.7	0.0	0.0
82.5°	51.2	55.9	69.8	65.2	65.2	65.2	51.2	23.3	4.7	0.0	0.0
85°	9.3	14.0	23.3	23.3	32.6	41.9	32.6	9.3	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)