

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: P530905

Luminaire Tested: **GALN-SA6A-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16075 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 182
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

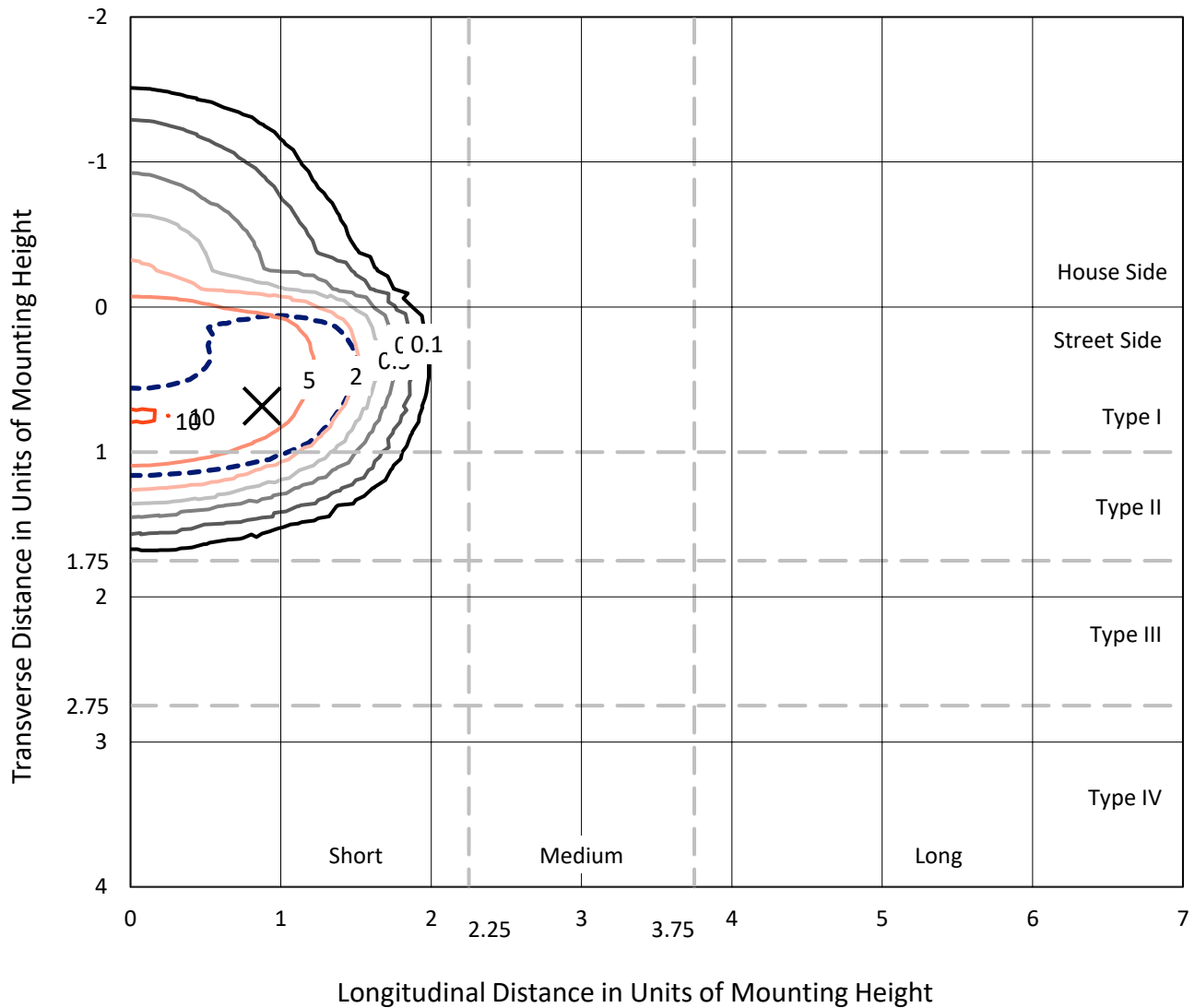


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

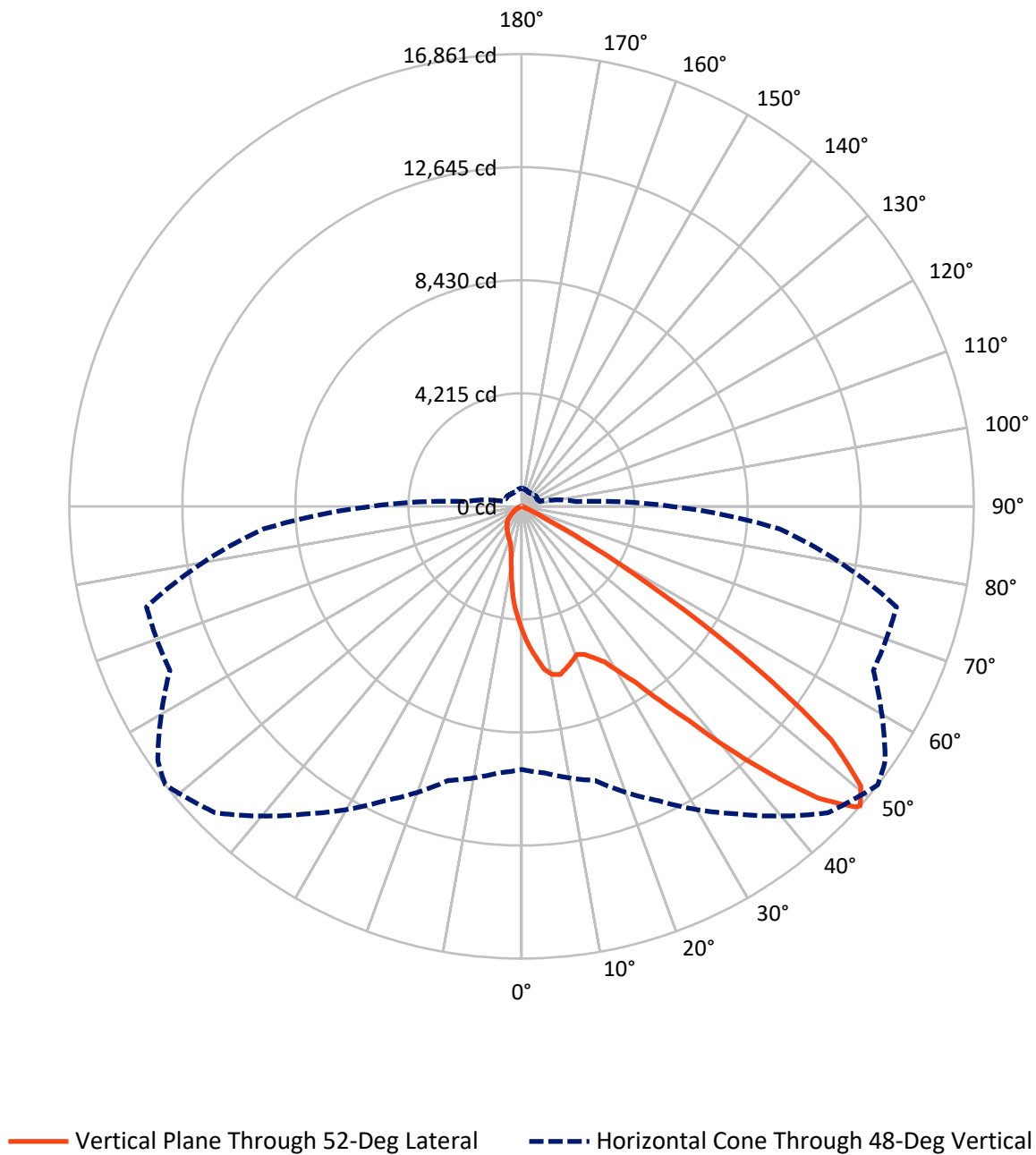


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1957.3	0.0	1957.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14117.7	0.0	14117.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	16075.0	0.0	16075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.9	2.6
10°-20°	1110.4	6.9
20°-30°	1895.9	11.8
30°-40°	3491.3	21.7
40°-50°	5422.0	33.7
50°-60°	3263.1	20.3
60°-70°	377.4	2.3
70°-80°	73.1	0.5
80°-90°	16.9	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°	16075.0	100.0
0°-180°	16075.0	100.0

Coefficient of Utilization



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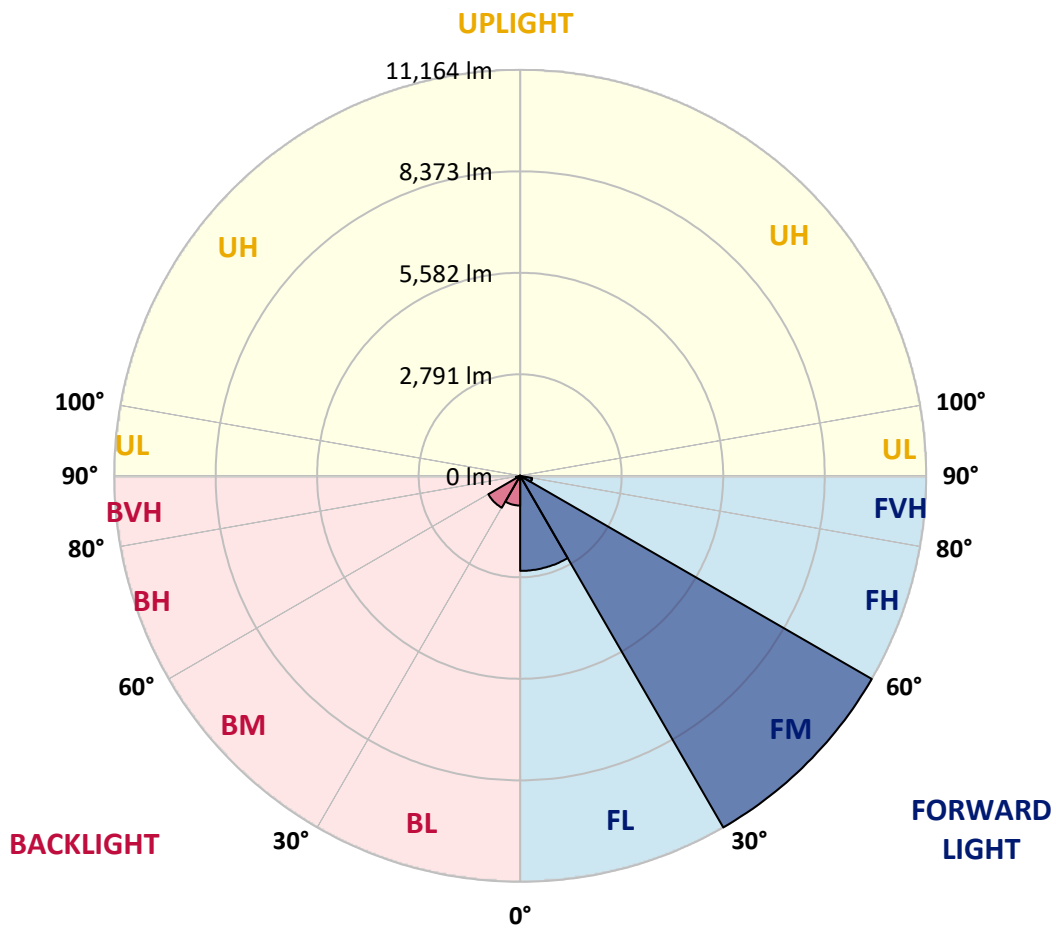
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2613.6	16.3			
FM	(30°-60°)	11163.8	69.4			
FH	(60°-80°)	332.3	2.1			G0/660
FVH	(80°-90°)	8.0	0.1			G0/10
BL	(0°-30°)	817.6	5.1	B2/1000		
BM	(30°-60°)	1012.7	6.3	B2/2500		
BH	(60°-80°)	118.1	0.7	B1/500		G1/500
BVH	(80°-90°)	8.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2
2.5°	5626.4	5497.5	5509.2	5424.9	5375.7	5296.0	5188.2	5167.1	5049.9	4890.6	4728.9
5°	6132.6	6102.1	6141.9	6020.1	6024.8	5893.5	5640.5	5645.2	5375.7	5115.6	4864.8
7.5°	6165.4	6095.1	6134.9	6242.7	6306.0	6282.5	6139.6	6015.4	5760.0	5378.0	5012.4
10°	5521.0	5654.5	5696.7	5874.8	6127.9	6395.0	6378.6	6385.7	6172.4	5673.3	5139.0
12.5°	5134.3	5045.3	5188.2	5296.0	5678.0	6195.8	6432.5	6484.1	6500.5	5959.2	5265.5
15°	4958.5	4958.5	4982.0	5012.4	5289.0	5767.0	6249.7	6399.7	6753.6	6334.1	5464.7
17.5°	5068.7	5064.0	5096.8	5033.5	5136.6	5504.5	6081.0	6252.1	7037.1	6702.0	5621.7
20°	5403.8	5420.2	5399.1	5216.3	5223.3	5499.9	5893.5	6163.0	7229.3	7020.7	5830.3
22.5°	5870.1	5879.5	5760.0	5560.8	5502.2	5638.1	6001.3	6207.6	7383.9	7402.7	5893.5
25°	6409.1	6371.6	6348.2	6067.0	5888.9	6006.0	6245.1	6364.6	7480.0	7730.7	6074.0
27.5°	7156.6	7081.6	6938.7	6687.9	6556.7	6390.3	6561.4	6758.2	7754.2	8190.0	6270.8
30°	8260.3	8194.7	7915.9	7592.5	7248.0	7084.0	7137.9	7245.7	8248.6	8722.0	6530.9
32.5°	9921.8	9783.5	9380.5	8764.2	8295.5	7843.2	7829.2	7944.0	8691.5	9457.8	6840.3
35°	11751.9	11709.8	11116.9	10481.8	9575.0	8876.6	8888.4	8949.3	9539.8	10423.3	7245.7
37.5°	12968.1	13200.1	12822.9	12140.9	11379.3	10381.1	10128.0	10149.1	10704.5	11566.8	7976.8
40°	13907.8	13711.0	13755.5	13596.2	13075.9	12396.4	11836.3	11726.2	12051.9	12832.2	8703.2
42.5°	13497.7	13507.1	13781.3	14158.6	14287.5	14238.2	13666.5	13457.9	13204.8	13868.0	9394.5
45°	12340.1	12581.5	12937.7	13936.0	14812.4	15634.9	15522.4	15175.6	14001.6	14688.2	9792.9
47.5°	10493.6	10484.2	11067.7	12365.9	14313.2	16239.5	16750.3	16506.6	14566.3	14596.8	9710.9
48°	9811.6	9980.4	10582.6	12110.5	13996.9	16150.4	16860.5	16553.5	14470.2	14474.9	9640.6
50°	7252.7	7222.2	7972.1	9846.8	12501.8	15175.6	16396.5	16635.5	14467.9	13858.6	9148.5
52.5°	3831.4	3962.6	4508.6	6191.2	8839.1	12419.8	14463.2	14835.8	13957.0	12851.0	8440.8
55°	1628.6	1471.6	1891.1	2795.6	4972.6	8297.8	10610.7	11440.3	11801.2	11372.3	7383.9
57.5°	581.2	635.1	731.1	1052.2	2090.3	4541.4	6327.1	6971.5	8176.0	8344.7	5031.2
60°	372.6	379.6	410.1	482.7	785.0	1750.5	3001.8	3515.0	4061.0	4192.3	2348.0
62.5°	288.2	290.6	304.6	316.4	372.6	679.6	1127.2	1335.7	1387.3	1192.8	616.3
65°	241.4	243.7	248.4	248.4	264.8	318.7	393.7	433.5	421.8	417.1	349.2
67.5°	185.1	189.8	199.2	199.2	208.6	194.5	217.9	232.0	262.5	318.7	297.6
70°	145.3	147.6	154.7	159.3	159.3	140.6	157.0	171.1	192.2	236.7	234.3
72.5°	112.5	117.2	121.9	121.9	114.8	96.1	112.5	124.2	138.3	164.0	159.3
75°	86.7	86.7	89.0	72.6	56.2	49.2	68.0	82.0	103.1	107.8	89.0
77.5°	23.4	25.8	23.4	21.1	23.4	35.2	44.5	51.6	65.6	65.6	58.6
80°	0.0	2.3	7.0	14.1	23.4	32.8	39.8	44.5	51.6	56.2	53.9
82.5°	0.0	2.3	7.0	14.1	21.1	25.8	35.2	37.5	42.2	49.2	49.2
85°	0.0	2.3	4.7	9.4	14.1	16.4	16.4	14.1	14.1	11.7	9.4
87.5°	0.0	0.0	2.3	4.7	4.7	7.0	7.0	7.0	7.0	7.0	7.0
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°	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2	4642.2
2.5°	4665.6	4593.0	4482.8	4309.4	4143.1	4035.3	3932.2	3817.3	3754.1	3749.4	3714.2
5°	4721.9	4557.8	4295.4	3997.8	3679.1	3404.9	3128.4	2947.9	2786.3	2697.2	2680.8
7.5°	4752.3	4539.1	4114.9	3615.8	3072.1	2624.6	2315.2	2087.9	1998.9	1933.3	1930.9
10°	4815.6	4506.3	3845.5	3109.6	2437.1	1984.8	1771.6	1668.5	1619.3	1600.5	1572.4
12.5°	4862.5	4445.4	3568.9	2589.4	1926.2	1645.0	1551.3	1527.9	1530.2	1539.6	1527.9
15°	4928.1	4391.5	3196.3	2125.4	1616.9	1481.0	1481.0	1485.7	1518.5	1523.2	1520.8
17.5°	4923.4	4286.0	2812.0	1750.5	1429.4	1410.7	1417.7	1462.3	1483.3	1490.4	1474.0
20°	4979.6	4187.6	2416.0	1495.1	1324.0	1352.1	1399.0	1410.7	1436.5	1441.2	1422.4
22.5°	4963.2	3941.5	2048.1	1293.5	1244.3	1298.2	1345.1	1359.1	1352.1	1338.1	1335.7
25°	4932.8	3730.6	1710.7	1160.0	1185.7	1244.3	1288.8	1263.1	1249.0	1251.4	1253.7
27.5°	4878.9	3463.5	1431.8	1066.2	1106.1	1192.8	1190.4	1181.1	1195.1	1183.4	1195.1
30°	4869.5	3196.3	1202.1	981.9	1047.5	1110.8	1115.4	1131.8	1148.2	1127.2	1148.2
32.5°	4883.6	2903.4	1038.1	930.3	1012.3	1014.7	1066.2	1082.6	1070.9	1024.0	1028.7
35°	4991.4	2678.5	918.6	902.2	956.1	958.4	1007.6	986.6	935.0	906.9	923.3
37.5°	5218.7	2491.0	862.4	876.4	881.1	911.6	913.9	871.7	876.4	874.1	883.4
40°	5509.2	2348.0	822.5	853.0	848.3	869.4	785.0	808.5	829.5	836.6	841.3
42.5°	5708.4	2244.9	796.7	815.5	806.1	768.6	721.8	745.2	761.6	787.4	792.1
45°	5797.5	2162.9	766.3	749.9	749.9	681.9	663.2	667.9	705.4	733.5	728.8
47.5°	5652.2	2083.2	712.4	663.2	679.6	623.3	602.2	602.2	642.1	677.2	670.2
48°	5595.9	2050.4	714.7	644.4	656.1	614.0	592.9	588.2	632.7	665.5	665.5
50°	5317.1	1928.6	653.8	592.9	569.4	564.7	550.7	555.4	583.5	614.0	614.0
52.5°	4773.4	1666.1	553.0	508.5	466.3	494.4	501.5	492.1	506.2	534.3	531.9
55°	3983.7	1279.5	442.9	421.8	389.0	419.5	433.5	421.8	407.7	428.8	428.8
57.5°	2551.9	688.9	353.8	358.5	325.7	356.2	367.9	339.8	314.0	330.4	328.1
60°	1150.6	412.4	290.6	283.5	262.5	297.6	316.4	283.5	248.4	260.1	271.8
62.5°	431.2	292.9	220.3	215.6	210.9	243.7	253.1	227.3	192.2	199.2	201.5
65°	316.4	257.8	175.8	159.3	168.7	192.2	187.5	161.7	138.3	138.3	142.9
67.5°	269.5	225.0	142.9	124.2	124.2	126.5	117.2	103.1	96.1	100.8	105.5
70°	210.9	178.1	112.5	96.1	86.7	77.3	68.0	65.6	58.6	65.6	63.3
72.5°	135.9	119.5	86.7	72.6	65.6	53.9	44.5	42.2	35.2	32.8	32.8
75°	72.6	72.6	68.0	58.6	51.6	42.2	35.2	28.1	18.7	14.1	14.1
77.5°	51.6	56.2	60.9	56.2	46.9	35.2	28.1	18.7	9.4	4.7	4.7
80°	49.2	56.2	60.9	53.9	46.9	35.2	25.8	14.1	7.0	2.3	2.3
82.5°	44.5	51.6	56.2	49.2	42.2	30.5	23.4	14.1	7.0	2.3	2.3
85°	9.4	11.7	14.1	14.1	16.4	21.1	16.4	11.7	4.7	2.3	2.3
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	4.7	4.7	2.3	2.3	2.3
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)