

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: P532919

Luminaire Tested: **GALN-SA8B-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27104 lumens
Efficiency: N/A
Efficacy: 83.4 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

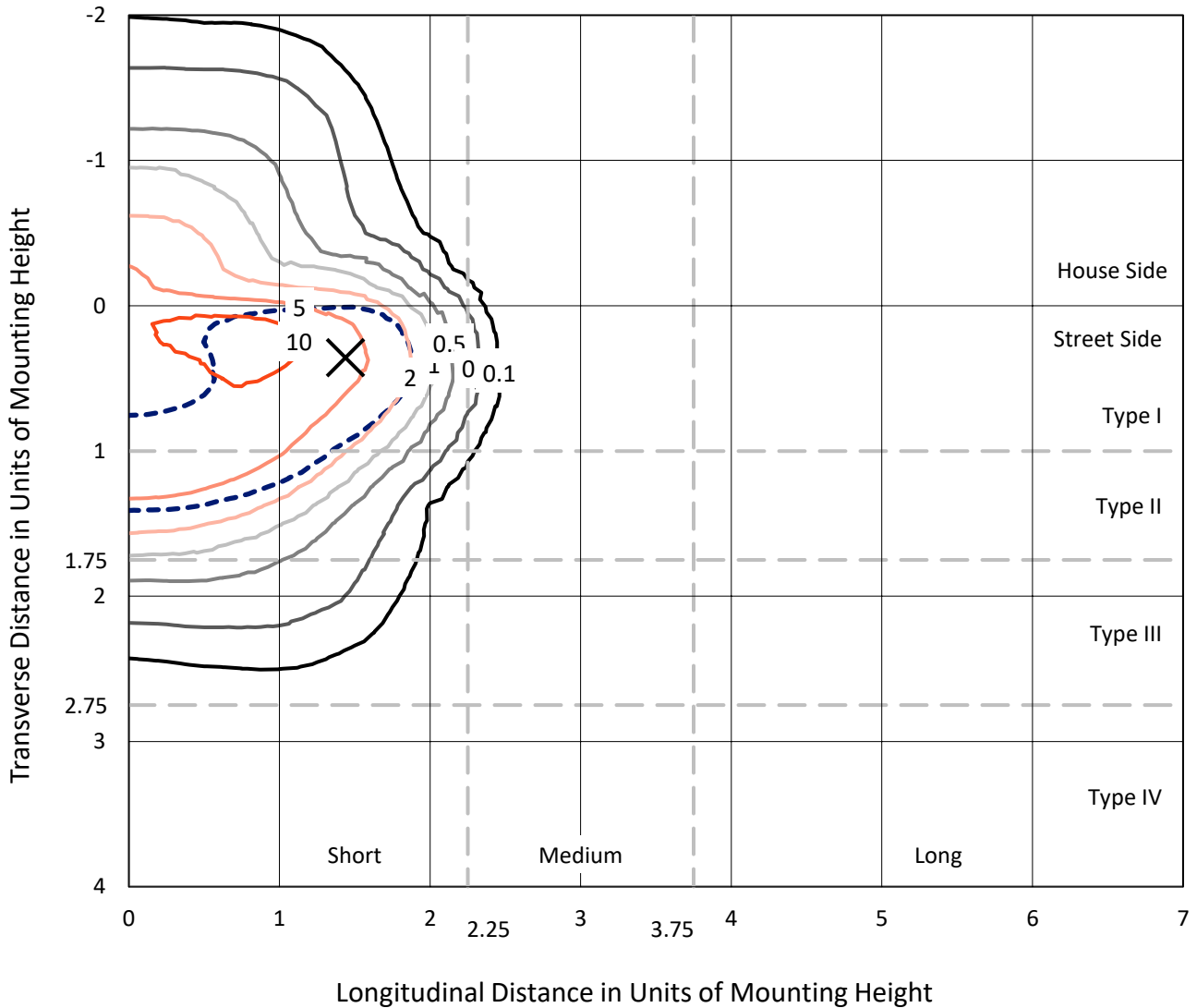
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

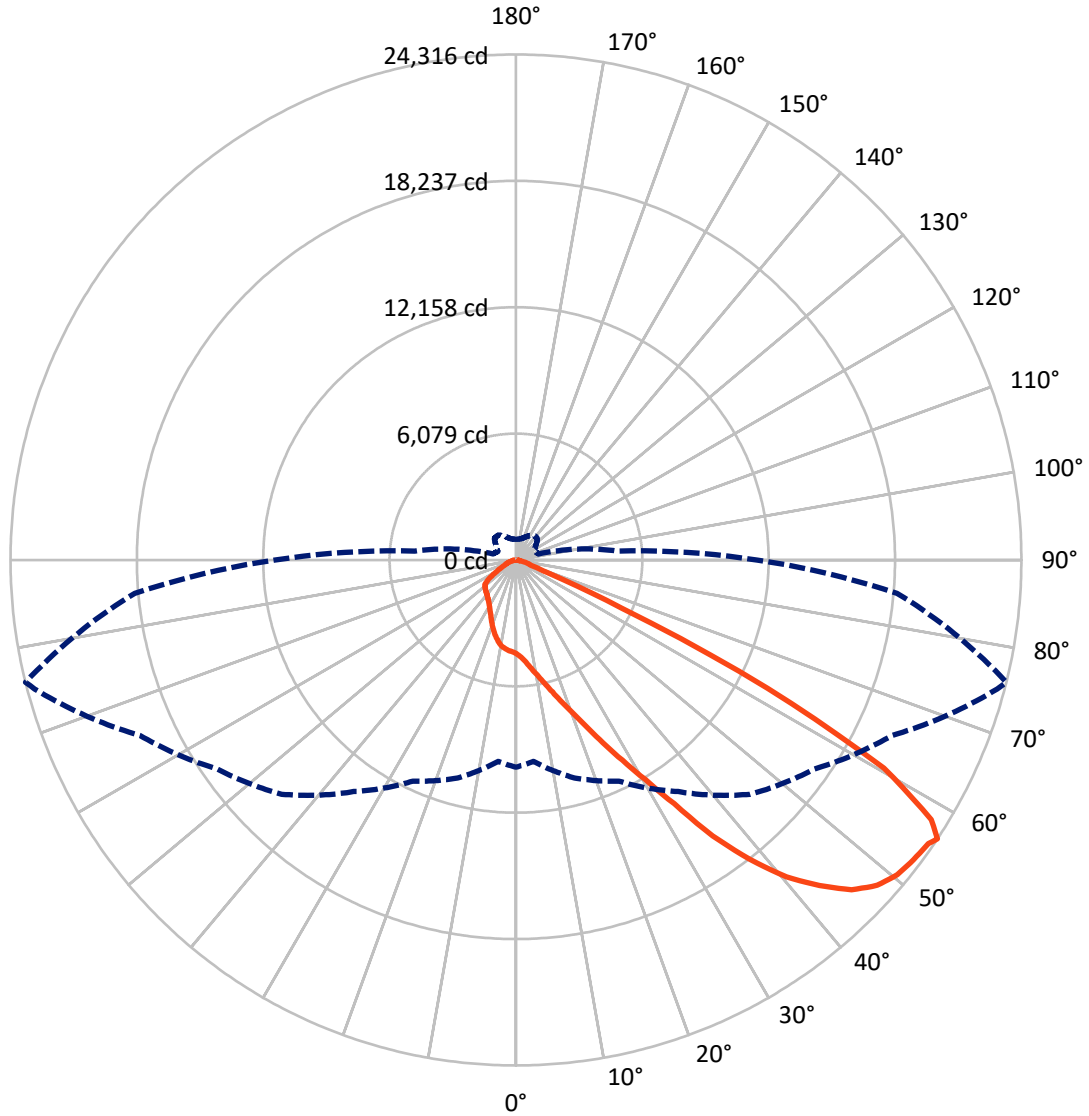
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA8B-740-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4257.9	0.0	4257.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	22846.1	0.0	22846.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	27104.0	0.0	27104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.5	1.7
10°-20°	1460.0	5.4
20°-30°	2647.5	9.8
30°-40°	4565.7	16.8
40°-50°	7417.1	27.4
50°-60°	7817.9	28.8
60°-70°	2388.7	8.8
70°-80°	306.2	1.1
80°-90°	46.5	0.2
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°	27104.0	100.0
0°-180°	27104.0	100.0

Coefficient of Utilization

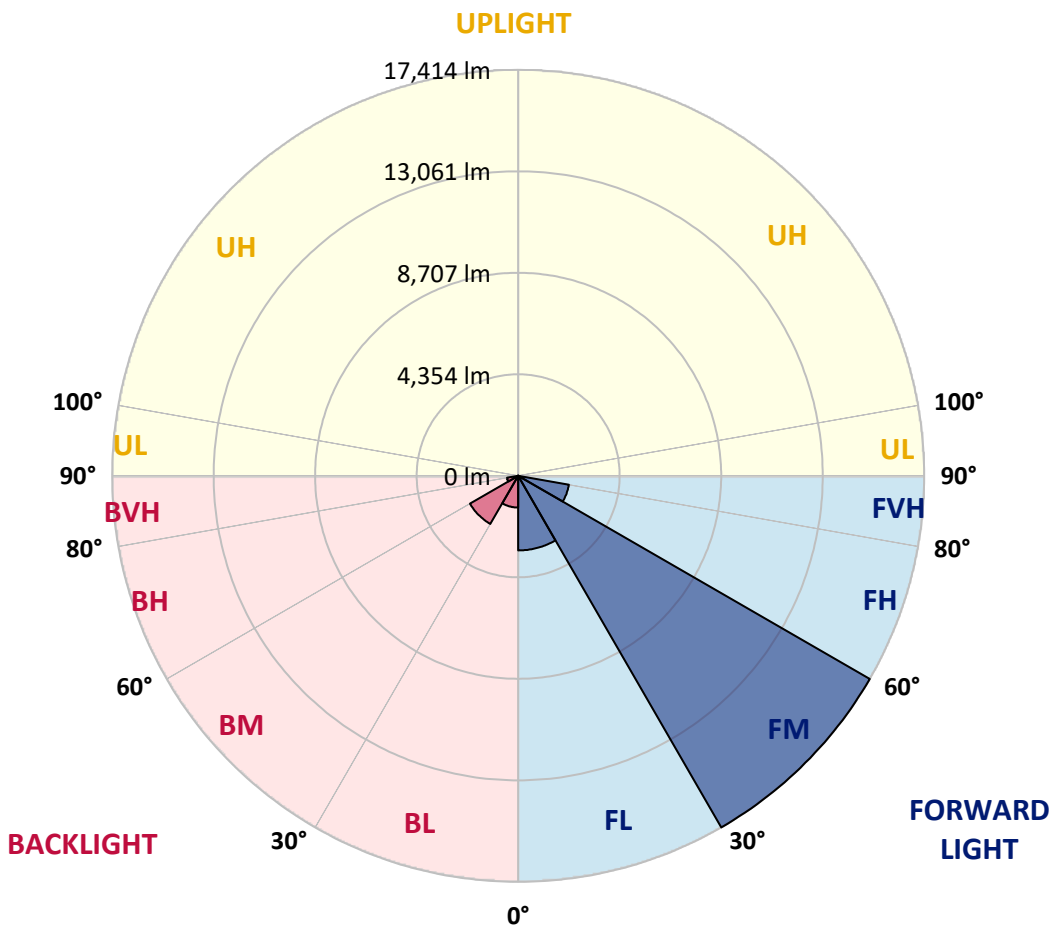


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3199.9	11.8			
FM (30°-60°)	17414.3	64.2			
FH (60°-80°)	2209.1	8.2			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	1362.1	5.0	B3/2500		
BM (30°-60°)	2386.3	8.8	B2/2500		
BH (60°-80°)	485.8	1.8	B1/500		G1/500
BVH (80°-90°)	23.7	0.1			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°	55°	65°	75°	76°	85°
0°	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5
2.5°	5196.0	5076.1	5081.1	5071.1	5056.1	5001.1	4836.2	4811.3	4701.4	4671.4	4571.5
5°	5820.5	5715.6	5775.5	5685.6	5600.7	5550.7	5280.9	5156.0	4981.1	4916.2	4776.3
7.5°	6210.2	6160.2	6140.2	6145.2	6065.3	5940.4	5820.5	5545.7	5310.9	5260.9	4966.1
10°	6400.0	6370.1	6400.0	6385.0	6420.0	6435.0	6225.2	6060.3	5715.6	5630.6	5171.0
12.5°	6445.0	6505.0	6529.9	6594.9	6679.8	6824.7	6809.7	6584.9	6125.3	6070.3	5485.7
15°	6554.9	6604.9	6579.9	6684.8	6844.7	7089.5	7219.4	7184.4	6689.8	6589.9	5850.5
17.5°	6654.8	6564.9	6649.8	6859.7	7019.6	7394.3	7709.0	7853.9	7304.3	7189.4	6185.2
20°	6789.7	6764.8	6749.8	6854.7	7139.5	7639.1	8263.6	8528.4	7993.8	7873.9	6664.8
22.5°	7199.4	7204.4	7194.4	7039.5	7244.4	7808.9	8748.2	9402.7	8818.2	8718.2	7209.4
25°	7739.0	7674.0	7624.1	7499.2	7474.2	7963.8	9237.8	10471.9	9807.4	9737.4	7799.0
27.5°	8308.6	8308.6	8158.7	8043.8	7883.9	8348.5	9687.5	11511.1	11001.5	10906.5	8313.6
30°	8928.1	8963.0	8943.1	8698.3	8598.3	8768.2	10147.1	12840.0	12370.4	12250.5	9162.9
32.5°	9842.4	9767.4	9852.4	9647.5	9352.7	9502.6	10871.6	14029.1	14149.0	13979.2	10277.0
35°	11051.4	11006.5	10951.5	10616.8	10267.0	10386.9	11895.8	15493.0	16382.3	16297.4	11401.2
37.5°	12135.6	12110.6	12065.6	11835.8	11431.1	11576.0	13059.9	17016.8	18560.6	18280.8	12989.9
40°	13274.7	13409.6	13264.7	13059.9	12690.2	13009.9	14428.8	17921.1	20394.2	20054.4	14204.0
42.5°	14818.5	14713.6	14778.5	14403.8	14204.0	14553.7	15802.7	18825.4	21818.1	21413.4	15493.0
45°	16462.2	16467.2	16292.4	16172.5	15652.9	16032.6	16647.1	19325.0	22952.2	22637.4	16467.2
47.5°	17516.4	17511.4	17701.3	17891.1	17356.5	16981.8	17221.6	19799.6	23536.7	23391.9	16822.0
50°	17351.5	17401.5	17646.3	18355.8	18635.5	18130.9	17761.2	19659.8	23801.5	23786.6	17126.7
52.5°	15093.3	15258.2	15667.9	16692.1	18101.0	18725.5	18325.8	19919.6	23931.4	23956.4	17581.4
55°	11491.1	11581.0	12360.4	13604.5	15163.2	17301.6	18101.0	20124.4	24031.4	24076.3	18130.9
56°	9967.3	9727.5	10851.6	11735.9	13599.5	15937.6	17531.4	19964.5	23971.4	24316.1	18405.7
57.5°	7524.2	7364.3	8273.6	9377.7	11171.3	13639.4	15762.8	19210.1	23566.7	23561.7	18011.0
60°	4576.5	4416.6	5116.0	5765.5	6769.8	8398.5	10651.7	15298.1	19924.5	20344.2	14583.7
62.5°	2722.9	2822.8	3512.3	3907.0	4231.7	4401.6	5510.7	9092.9	13294.7	13594.5	9048.0
65°	1813.6	1848.6	2368.2	3017.7	3162.5	2518.0	2243.3	3682.1	5765.5	5580.7	3732.1
67.5°	1119.1	1199.1	1588.8	2268.2	2513.1	1838.6	1064.2	1373.9	1588.8	1588.8	1079.2
70°	679.5	719.4	1059.2	1543.8	1723.7	1184.1	774.4	774.4	764.4	749.4	644.5
72.5°	324.7	349.7	539.6	794.4	809.4	624.5	599.5	654.5	639.5	634.5	534.6
75°	139.9	149.9	189.9	249.8	284.8	264.8	364.7	469.6	484.6	469.6	384.7
77.5°	45.0	50.0	69.9	89.9	94.9	114.9	154.9	194.8	224.8	209.8	189.9
80°	5.0	10.0	20.0	45.0	69.9	89.9	114.9	129.9	144.9	144.9	134.9
82.5°	5.0	5.0	20.0	40.0	64.9	84.9	109.9	124.9	144.9	149.9	139.9
85°	0.0	5.0	15.0	35.0	55.0	55.0	50.0	50.0	35.0	35.0	35.0
87.5°	0.0	0.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5	4511.5
2.5°	4551.5	4541.5	4406.6	4321.6	4276.7	4186.8	4131.8	4091.8	4061.9	4026.9	4031.9
5°	4611.4	4576.5	4351.6	4196.7	4011.9	3912.0	3827.0	3757.1	3712.1	3702.1	3682.1
7.5°	4781.3	4596.4	4256.7	3976.9	3742.1	3642.2	3567.2	3522.3	3542.3	3497.3	3532.3
10°	4911.2	4636.4	4141.8	3737.1	3502.3	3427.3	3387.4	3422.3	3472.3	3452.3	3427.3
12.5°	5071.1	4676.4	3956.9	3507.3	3287.5	3232.5	3302.4	3367.4	3467.3	3507.3	3457.3
15°	5250.9	4721.3	3722.1	3242.5	3102.6	3147.6	3267.5	3382.4	3482.3	3532.3	3562.2
17.5°	5470.8	4706.4	3492.3	3032.6	2927.7	3057.6	3202.5	3307.4	3457.3	3532.3	3512.3
20°	5675.6	4656.4	3237.5	2822.8	2827.8	2947.7	3067.6	3237.5	3317.4	3417.4	3382.4
22.5°	5870.4	4566.5	2972.7	2677.9	2677.9	2862.8	2922.7	3032.6	3102.6	3152.6	3147.6
25°	6145.2	4396.6	2752.9	2538.0	2598.0	2717.9	2767.9	2802.8	2772.8	2812.8	2817.8
27.5°	6340.1	4221.7	2573.0	2413.1	2523.0	2613.0	2598.0	2578.0	2508.1	2453.1	2488.1
30°	6549.9	4016.9	2418.1	2328.2	2388.1	2468.1	2408.1	2348.2	2238.3	2148.3	2153.3
32.5°	6849.7	3922.0	2283.2	2228.3	2308.2	2318.2	2253.3	2163.3	2053.4	1968.5	1963.5
35°	7409.3	3862.0	2168.3	2163.3	2178.3	2183.3	2118.4	2008.4	1963.5	1893.5	1918.5
37.5°	7968.8	3832.0	2088.4	2068.4	2063.4	2068.4	1993.5	1888.5	1973.5	1968.5	1978.5
40°	8683.3	3966.9	1973.5	1948.5	1953.5	1953.5	1858.6	1828.6	1978.5	1993.5	1998.5
42.5°	9407.7	4136.8	1898.5	1818.6	1838.6	1838.6	1788.6	1753.6	1858.6	1758.6	1743.6
45°	10037.2	4386.6	1818.6	1688.7	1738.7	1763.6	1748.6	1688.7	1623.7	1453.9	1453.9
47.5°	10242.1	4606.4	1723.7	1563.8	1603.8	1713.7	1668.7	1543.8	1428.9	1289.0	1279.0
50°	10601.8	4846.2	1648.7	1418.9	1503.8	1638.7	1593.8	1468.9	1339.0	1239.0	1244.0
52.5°	10971.5	5121.0	1508.8	1249.0	1354.0	1578.8	1578.8	1438.9	1239.0	1169.1	1159.1
55°	11526.1	5111.0	1259.0	1024.2	1209.1	1488.8	1513.8	1289.0	1109.1	1054.2	1054.2
56°	11606.0	4881.2	1134.1	959.3	1144.1	1463.9	1468.9	1249.0	1059.2	999.2	999.2
57.5°	11006.5	4406.6	994.2	879.3	1064.2	1418.9	1423.9	1214.1	1019.2	934.3	924.3
60°	8468.4	2982.7	829.4	784.4	964.3	1279.0	1304.0	1104.1	894.3	829.4	824.4
62.5°	4781.3	1653.7	729.4	709.4	829.4	1089.2	1164.1	964.3	759.4	724.4	734.4
65°	2183.3	909.3	614.5	574.6	669.5	839.3	939.3	794.4	624.5	584.5	584.5
67.5°	799.4	619.5	524.6	454.6	469.6	544.6	609.5	514.6	414.7	354.7	369.7
70°	569.6	519.6	459.6	394.7	364.7	354.7	349.7	289.8	204.8	159.9	169.9
72.5°	459.6	429.7	384.7	334.7	284.8	239.8	204.8	149.9	94.9	64.9	60.0
75°	329.7	314.8	279.8	239.8	199.8	169.9	139.9	94.9	50.0	25.0	25.0
77.5°	169.9	169.9	164.9	149.9	124.9	99.9	79.9	55.0	30.0	10.0	10.0
80°	129.9	139.9	144.9	129.9	114.9	89.9	64.9	40.0	20.0	5.0	5.0
82.5°	124.9	144.9	154.9	134.9	114.9	84.9	64.9	40.0	20.0	5.0	5.0
85°	30.0	30.0	45.0	50.0	64.9	69.9	55.0	35.0	15.0	5.0	5.0
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	5.0	5.0	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)