

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: P531509

Luminaire Tested: **GALN-SA6D-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531509  
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-SA6D-740-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 26827 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

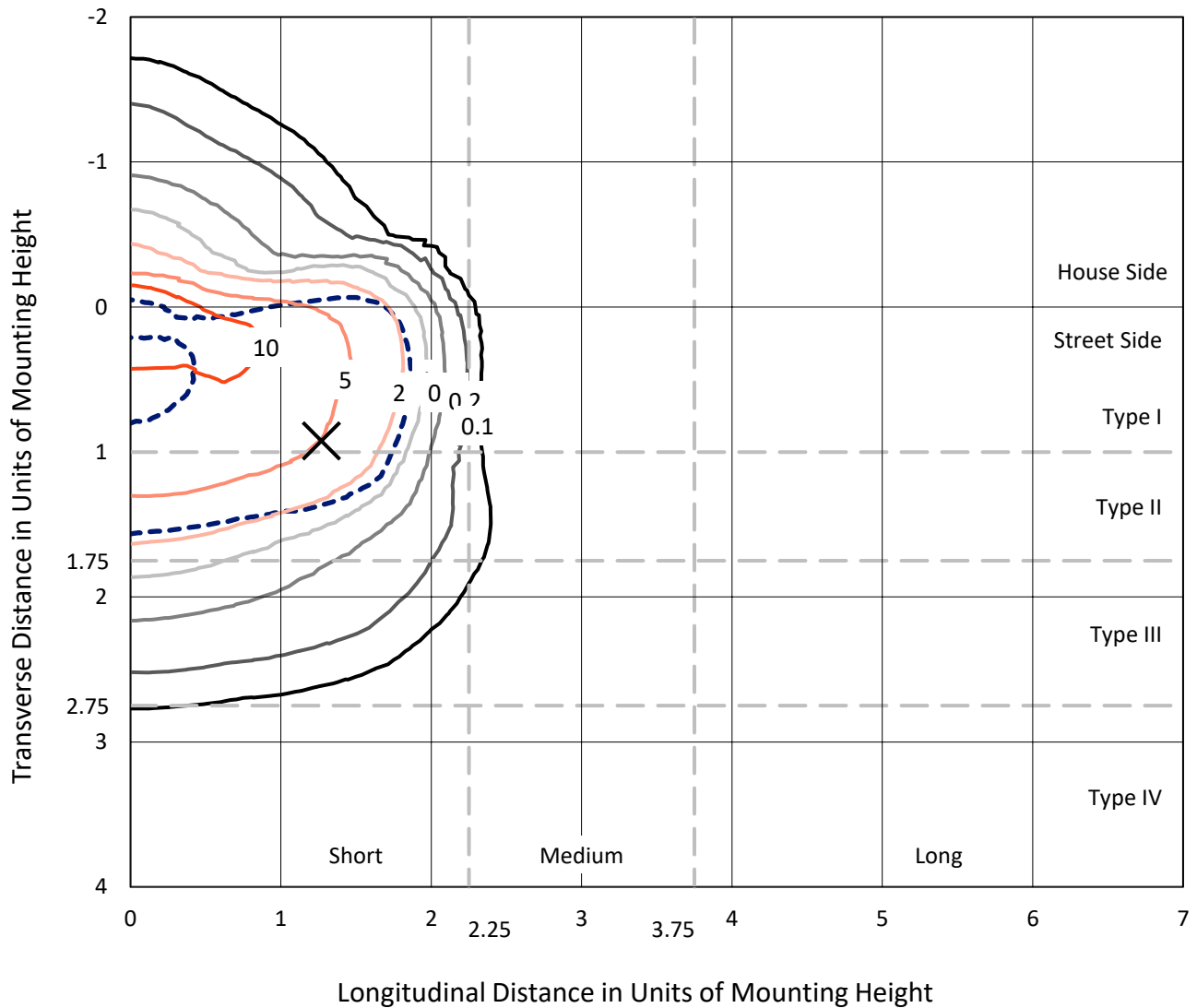
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

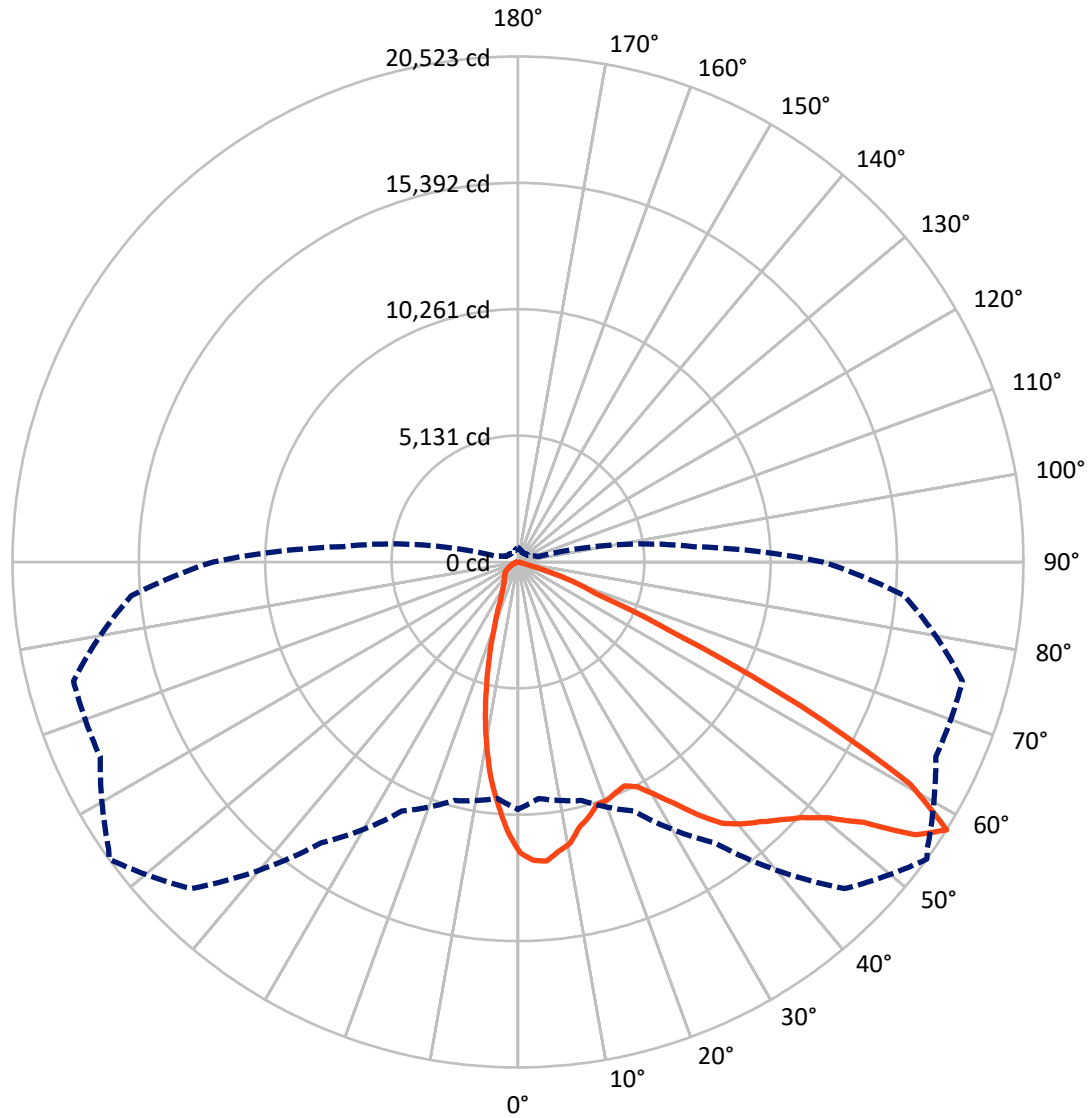
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3791.1	0.0	3791.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	23035.9	0.0	23035.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	26827.0	0.0	26827.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	988.9	3.7
10°-20°	2111.3	7.9
20°-30°	2797.9	10.4
30°-40°	4066.2	15.2
40°-50°	6029.6	22.5
50°-60°	7539.8	28.1
60°-70°	2974.1	11.1
70°-80°	296.1	1.1
80°-90°	23.0	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°	26827.0	100.0
0°-180°	26827.0	100.0

**Coefficient of Utilization**

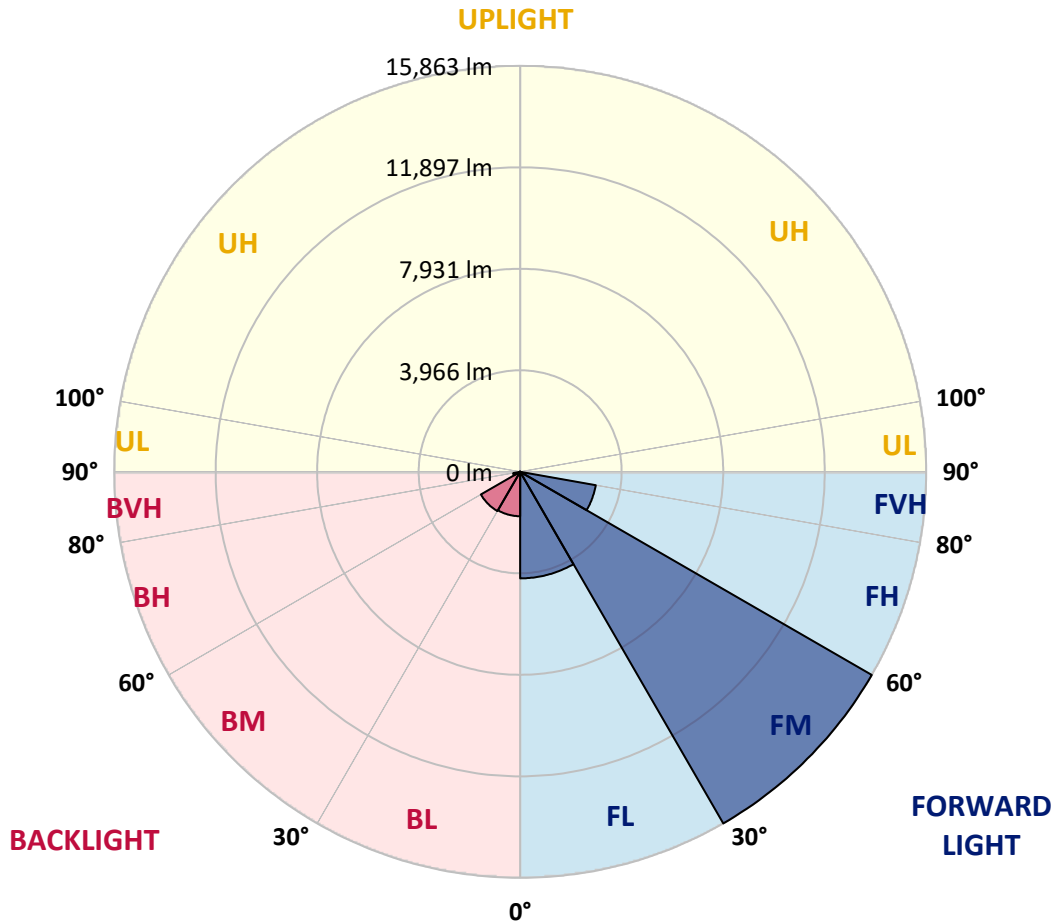


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4164.3	15.5			
FM (30°-60°)	15862.7	59.1			
FH (60°-80°)	2998.4	11.2			G2/5000
FVH (80°-90°)	10.5	0.0			G1/100
BL (0°-30°)	1733.9	6.5	B3/2500		
BM (30°-60°)	1772.8	6.6	B2/2500		
BH (60°-80°)	271.8	1.0	B1/500		G1/500
BVH (80°-90°)	12.6	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°	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7
2.5°	12506.1	12376.4	12386.3	12341.4	12281.6	12326.5	12131.9	12176.8	12171.8	11907.4	11732.9
5°	12191.8	12331.5	12186.8	12306.5	12191.8	12316.5	12196.8	12107.0	11962.3	11767.8	11443.5
7.5°	11658.0	11523.3	11563.2	11712.9	11737.8	12017.2	11867.5	11982.3	11922.4	11538.3	11094.3
10°	10585.5	10555.6	10755.1	10954.7	11199.1	11498.4	11613.1	11548.3	11503.4	11358.7	10765.1
12.5°	9762.4	9847.2	9842.2	10171.5	10585.5	10755.1	11054.4	11044.4	11293.9	11024.5	10455.8
15°	8979.2	9024.1	9233.6	9438.2	9897.1	10381.0	10750.1	10800.0	11099.3	10909.8	10216.4
17.5°	8500.3	8435.5	8600.1	8844.5	9313.4	9947.0	10356.0	10475.8	10884.8	10844.9	9942.0
20°	8026.4	8026.4	8161.1	8450.4	8879.5	9592.8	10321.1	10286.2	10884.8	10770.1	9647.7
22.5°	7866.8	7946.6	7981.5	8201.0	8709.8	9323.4	10171.5	10236.3	10969.6	10735.2	9518.0
25°	8086.3	7981.5	7991.5	8166.1	8645.0	9193.7	10061.7	10206.4	11124.3	10909.8	9413.2
27.5°	8121.2	8226.0	8255.9	8375.6	8694.9	9233.6	10336.1	10630.4	11508.4	11318.8	9443.1
30°	8425.5	8530.3	8525.3	8729.8	8949.3	9557.9	10949.7	11009.5	12301.5	11832.6	9627.7
32.5°	8794.6	8904.4	8939.3	9178.8	9353.4	10151.5	11697.9	11852.6	13064.8	12640.8	10111.6
35°	9253.6	9213.7	9373.3	9612.8	9986.9	11019.5	12610.8	12870.2	13887.9	13688.3	10610.4
37.5°	9827.3	9777.4	9932.0	10321.1	10829.9	12047.1	13453.9	13623.5	14486.5	14661.1	11533.3
40°	10231.3	10251.3	10720.2	11244.0	11782.7	13024.9	13987.6	14152.3	14905.5	15569.0	12231.7
42.5°	10904.8	11029.5	11593.2	12231.7	12795.4	13758.2	14421.6	14581.3	15100.1	16297.3	13174.5
45°	11882.5	11827.6	12451.2	13164.5	13788.1	14521.4	14935.4	14880.6	15214.8	17020.6	13768.1
47.5°	13139.6	13149.6	13563.6	14172.2	14820.7	15184.9	15509.1	15314.6	15454.2	17783.8	14561.3
50°	13997.6	14072.4	14406.7	15030.2	15354.5	15913.2	16327.2	16207.5	16162.6	18242.8	15060.2
52.5°	14217.1	14441.6	14621.2	15399.4	16157.6	17040.6	17569.3	17823.8	17025.6	18397.4	15693.7
55°	12560.9	12760.5	13394.0	14461.5	16461.9	18826.4	19554.8	19559.7	18153.0	19085.8	16137.7
57.5°	10041.8	9637.7	10026.8	11159.2	13917.8	18751.6	20522.5	20288.1	18716.7	18681.8	15753.5
60°	6943.9	6844.2	6869.1	7318.1	9632.7	14915.5	18287.7	18592.0	17235.1	16192.5	12471.1
62.5°	5502.3	5417.5	5307.7	5257.8	5981.2	9293.5	12900.1	13329.2	12052.1	10500.7	7392.9
65°	4310.0	4260.1	4275.1	4474.6	4469.7	5272.8	7053.7	6879.1	5507.3	4070.6	2324.6
67.5°	2908.3	2983.1	3043.0	3646.6	3955.8	3671.5	3407.1	3307.3	1790.9	753.3	513.8
70°	1636.2	1646.2	1711.0	2279.7	3003.1	2848.4	2349.6	2349.6	892.9	274.4	294.3
72.5°	892.9	863.0	803.1	982.7	1336.9	1356.9	1047.6	912.9	264.4	179.6	164.6
75°	434.0	429.0	369.1	304.3	289.3	239.4	184.6	169.6	119.7	114.7	99.8
77.5°	89.8	84.8	44.9	44.9	49.9	54.9	69.8	69.8	84.8	84.8	69.8
80°	0.0	0.0	5.0	20.0	34.9	49.9	59.9	59.9	69.8	69.8	54.9
82.5°	0.0	0.0	5.0	15.0	29.9	44.9	54.9	59.9	69.8	74.8	59.9
85°	0.0	0.0	0.0	10.0	24.9	34.9	29.9	29.9	24.9	20.0	10.0
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°	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7	11817.7
2.5°	11643.1	11633.1	11403.6	11273.9	11039.5	10834.9	10670.3	10550.6	10550.6	10475.8	10405.9
5°	11313.8	11229.0	10740.1	10425.9	9981.9	9652.7	9428.2	9253.6	8979.2	9054.0	8759.7
7.5°	10904.8	10690.3	10041.8	9562.9	8949.3	8480.4	8001.5	7577.5	7168.4	6983.8	7083.6
10°	10465.8	10091.6	9218.7	8460.4	7697.2	6839.2	6280.5	5602.0	5183.0	5158.1	5048.3
12.5°	10001.9	9577.8	8515.3	7467.7	6465.0	5432.4	4579.4	3945.9	3661.5	3347.3	3407.1
15°	9652.7	9024.1	7732.1	6470.0	5138.1	4095.5	3237.5	2748.6	2479.3	2404.4	2379.5
17.5°	9273.5	8600.1	6934.0	5407.5	4030.7	2948.2	2329.6	2095.2	1990.4	1990.4	1975.4
20°	8879.5	8121.2	6140.8	4419.8	3023.0	2199.9	1865.7	1790.9	1785.9	1780.9	1780.9
22.5°	8620.1	7572.5	5422.5	3511.9	2279.7	1760.9	1621.2	1591.3	1611.3	1671.1	1671.1
25°	8345.7	7043.7	4629.3	2708.7	1765.9	1511.5	1431.7	1451.6	1501.5	1556.4	1536.4
27.5°	8066.3	6699.5	3881.0	2125.1	1446.7	1321.9	1292.0	1336.9	1391.8	1441.7	1426.7
30°	8001.5	6330.4	3172.7	1611.3	1242.1	1152.3	1172.3	1212.2	1267.1	1287.0	1307.0
32.5°	8101.3	6041.0	2599.0	1321.9	1082.5	1057.6	1057.6	1077.5	1112.4	1157.3	1142.4
35°	8385.6	5876.4	2055.2	1147.3	992.7	967.8	962.8	982.7	1002.7	1017.6	1002.7
37.5°	8819.6	5746.7	1681.1	1017.6	932.8	892.9	883.0	878.0	897.9	902.9	912.9
40°	9373.3	5816.5	1426.7	937.8	873.0	828.1	798.2	798.2	798.2	813.1	818.1
42.5°	9971.9	5911.3	1232.1	892.9	818.1	763.2	733.3	723.3	733.3	753.3	748.3
45°	10600.5	6095.9	1107.4	823.1	768.2	698.4	658.5	648.5	673.4	713.3	708.4
47.5°	11189.1	6360.3	1012.7	778.2	718.3	653.5	603.6	593.6	638.5	693.4	698.4
50°	11777.7	6819.2	977.7	743.3	683.4	608.6	563.7	553.7	603.6	673.4	688.4
52.5°	12456.2	7313.1	952.8	698.4	643.5	573.7	523.8	513.8	568.7	658.5	663.5
55°	12900.1	7732.1	932.8	618.6	568.7	518.8	478.9	473.9	533.8	613.6	633.5
57.5°	12381.4	7148.5	863.0	538.8	483.9	458.9	424.0	424.0	473.9	548.7	563.7
60°	9388.3	4704.1	613.6	434.0	409.1	394.1	379.1	379.1	419.0	473.9	478.9
62.5°	5497.3	2534.1	394.1	349.2	349.2	334.2	309.3	309.3	349.2	379.1	384.1
65°	1631.2	813.1	319.3	299.3	294.3	269.4	244.4	239.4	269.4	284.3	279.4
67.5°	468.9	374.1	264.4	249.4	244.4	204.5	189.6	184.6	189.6	179.6	174.6
70°	279.4	254.4	204.5	209.5	184.6	149.7	134.7	129.7	119.7	104.8	94.8
72.5°	154.6	154.6	149.7	159.6	129.7	99.8	84.8	69.8	54.9	44.9	39.9
75°	94.8	99.8	104.8	109.7	84.8	64.8	54.9	34.9	20.0	10.0	10.0
77.5°	64.8	69.8	74.8	79.8	69.8	59.9	44.9	24.9	5.0	0.0	0.0
80°	49.9	54.9	64.8	69.8	74.8	79.8	59.9	24.9	5.0	0.0	0.0
82.5°	54.9	59.9	74.8	69.8	69.8	69.8	54.9	24.9	5.0	0.0	0.0
85°	10.0	15.0	24.9	24.9	34.9	44.9	34.9	10.0	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)