

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: P455131

Luminaire Tested: **GALN-SA6B-740-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455131  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33028 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

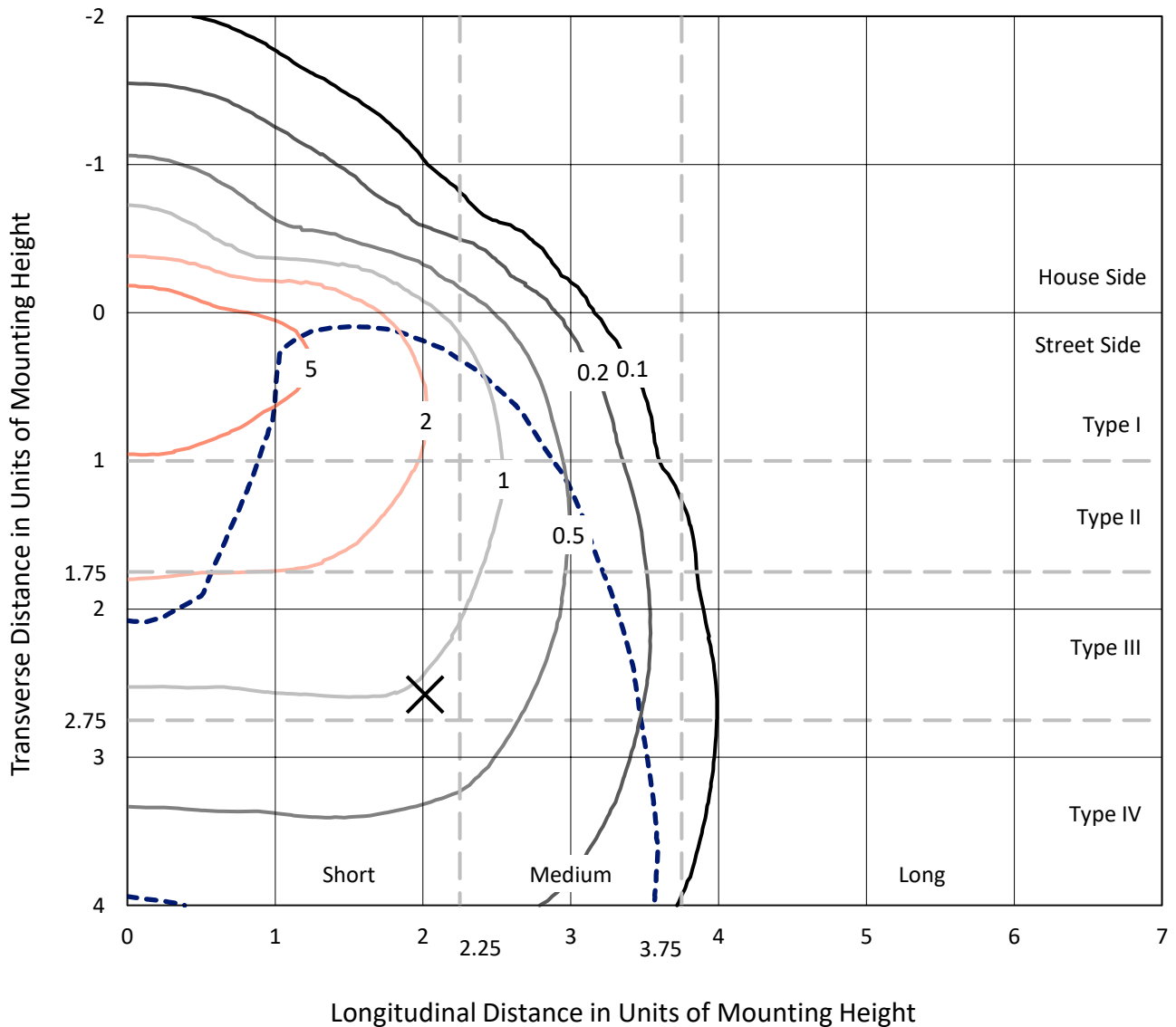
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

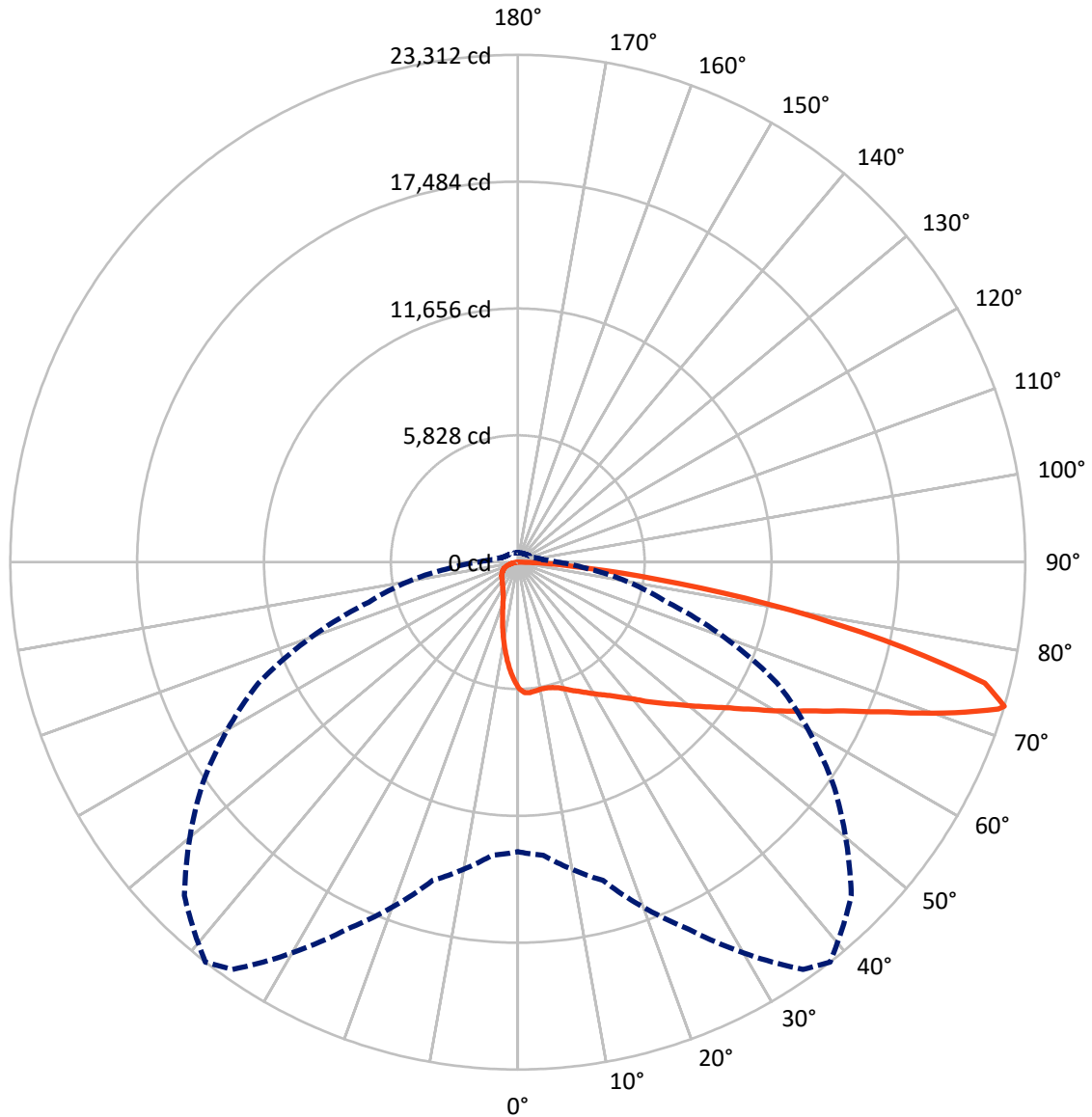
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4439.9	0.0	4439.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	28588.1	0.0	28588.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	33028.0	0.0	33028.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.5	1.5
10°-20°	1298.8	3.9
20°-30°	2022.5	6.1
30°-40°	2966.5	9.0
40°-50°	4400.5	13.3
50°-60°	6234.7	18.9
60°-70°	7908.8	23.9
70°-80°	6583.5	19.9
80°-90°	1106.1	3.3
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°	33028.0	100.0
0°-180°	33028.0	100.0

**Coefficient of Utilization**



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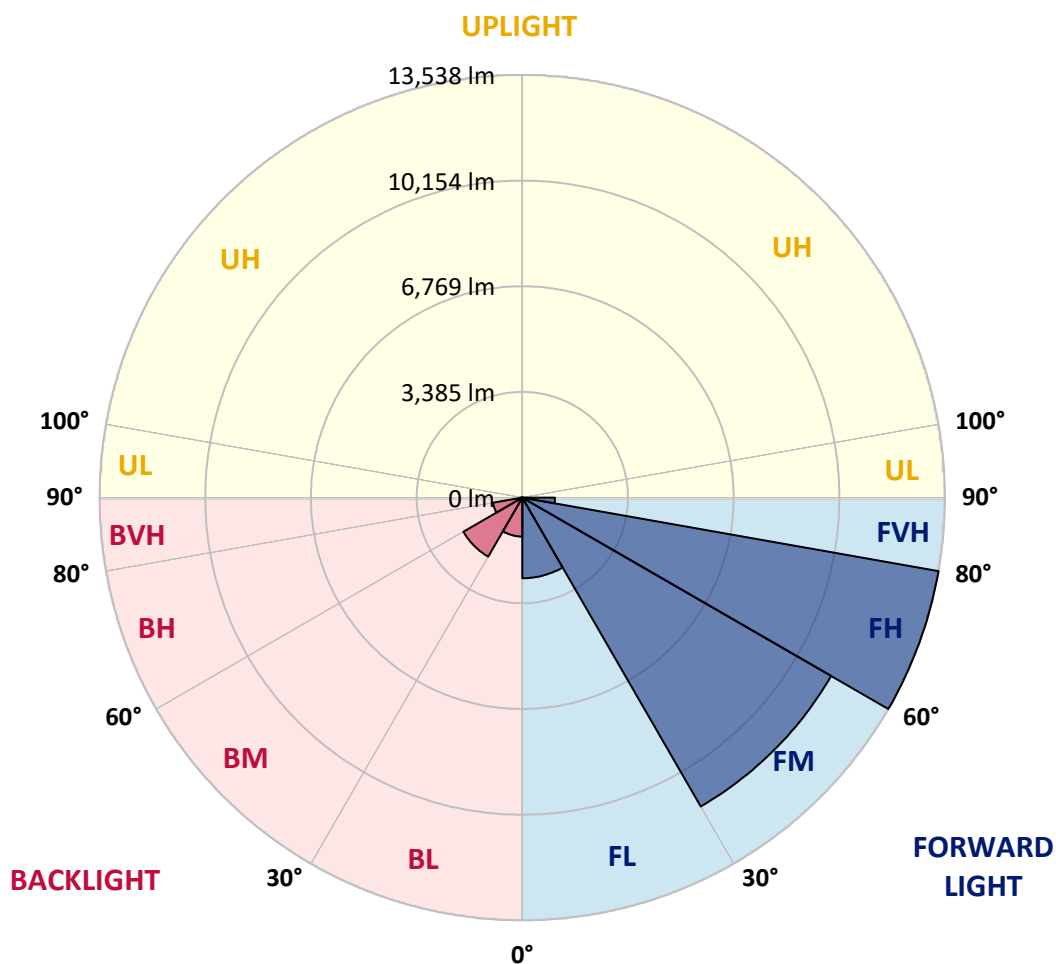
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2581.9	7.8			
FM	(30°-60°)	11422.0	34.6			
FH	(60°-80°)	13538.0	41.0			G5
FVH	(80°-90°)	1046.1	3.2			G5
BL	(0°-30°)	1245.9	3.8	B3/2500		
BM	(30°-60°)	2179.7	6.6	B2/2500		
BH	(60°-80°)	954.3	2.9	B2/1000		G2/1000
BVH	(80°-90°)	60.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5
2.5°	6035.6	6065.4	6050.5	6030.0	6017.0	6003.9	5985.2	5931.2	5888.3	5841.6	5768.9
5°	6080.4	6099.0	6086.0	6059.8	6030.0	6017.0	5981.5	5910.6	5841.6	5763.3	5655.1
7.5°	6054.3	6061.7	6046.8	6015.1	5989.0	5964.7	5923.7	5845.4	5761.4	5666.3	5524.6
10°	5961.0	5989.0	5989.0	5962.9	5936.8	5923.7	5882.7	5808.1	5731.6	5623.4	5455.5
12.5°	5884.5	5914.4	5938.6	5931.2	5929.3	5929.3	5897.6	5841.6	5752.1	5649.5	5449.9
15°	5832.3	5867.7	5920.0	5949.8	5968.5	5974.1	5961.0	5912.5	5821.1	5701.7	5472.3
17.5°	5821.1	5864.0	5959.1	6024.4	6072.9	6071.0	6067.3	6000.2	5899.4	5776.3	5500.3
20°	5871.5	5927.4	6059.8	6162.4	6233.3	6220.3	6199.7	6112.1	5994.6	5856.5	5526.4
22.5°	6022.5	6080.4	6225.8	6337.8	6406.8	6406.8	6345.2	6229.6	6104.6	5949.8	5561.9
25°	6238.9	6302.3	6457.1	6570.9	6602.6	6578.4	6516.8	6376.9	6233.3	6084.1	5636.5
27.5°	6503.8	6580.2	6723.8	6819.0	6809.6	6791.0	6727.6	6548.5	6404.9	6268.7	5763.3
30°	6833.9	6889.8	7039.0	7061.4	7027.9	7024.1	6934.6	6755.5	6621.3	6516.8	5944.2
32.5°	7145.4	7195.7	7315.1	7324.4	7264.7	7272.2	7188.3	7024.1	6947.7	6910.4	6248.2
35°	7475.5	7501.6	7604.2	7593.0	7553.8	7548.2	7514.7	7358.0	7382.2	7449.4	6679.1
37.5°	7751.5	7803.8	7861.6	7870.9	7869.0	7887.7	7910.1	7835.5	7975.4	8186.1	7244.2
40°	8005.2	8050.0	8135.8	8165.6	8238.3	8275.6	8352.1	8354.0	8676.6	9023.6	7939.9
42.5°	8176.8	8253.3	8413.7	8467.7	8644.9	8756.8	8870.6	8991.9	9460.0	9905.8	8760.6
45°	8326.0	8426.7	8693.4	8861.3	9101.9	9238.1	9478.7	9732.3	10405.6	10989.4	9594.3
47.5°	8551.7	8641.2	8947.1	9243.6	9607.4	9764.0	10124.0	10502.6	11383.0	12022.7	10392.6
50°	8865.0	8919.1	9230.6	9713.7	10178.1	10379.5	10855.1	11401.6	12427.4	13042.9	11093.9
52.5°	9266.0	9288.4	9536.5	10180.0	10791.7	11041.6	11672.1	12309.9	13341.4	13928.9	11649.7
55°	9739.8	9702.5	9896.4	10674.2	11493.0	11819.4	12496.5	13229.5	14369.1	14645.1	12054.4
57.5°	10207.9	10150.1	10304.9	11274.8	12358.4	12752.0	13540.9	14177.0	15286.7	15314.7	12337.9
60°	10704.1	10661.2	10845.8	11979.8	13419.7	13886.0	14615.3	15159.9	16174.5	15781.0	12382.7
62.5°	11213.2	11144.2	11407.2	12772.5	14615.3	15038.6	15745.5	16204.4	17045.5	15954.4	11951.8
65°	11707.5	11675.8	12082.4	13714.4	15976.8	16458.0	17144.4	17455.9	17743.1	15693.3	10883.1
67.5°	12233.5	12296.9	12946.0	14971.5	17752.4	18356.7	19097.2	18804.4	17942.7	14456.7	9165.3
70°	13035.5	13076.5	14080.0	16618.4	20041.0	20770.2	21128.3	19283.7	16980.3	12108.5	6889.8
72.5°	13380.5	13561.5	15092.7	18347.4	22641.0	23086.7	21811.0	18215.0	14145.2	8225.3	3620.2
73°	13304.1	13520.4	15139.4	18610.4	22844.3	23312.4	21665.5	17664.8	13149.3	7083.8	3103.6
75°	12351.0	12617.7	14533.2	18390.3	22448.9	22169.1	19326.6	15055.4	8885.5	3221.1	1413.8
77.5°	9745.4	9821.8	11515.4	14850.3	17677.8	17159.3	14464.2	9409.6	3629.6	1197.4	802.0
80°	4888.5	5170.2	6490.7	8506.9	11821.3	11651.5	9129.9	4450.2	1512.6	703.2	531.6
82.5°	2351.9	2551.5	3161.4	4148.1	6531.7	6376.9	4521.1	2432.1	960.5	410.3	313.3
85°	1514.5	1663.7	2012.5	1978.9	2685.8	2564.6	2031.1	1840.9	568.9	214.5	218.2
87.5°	999.7	1094.8	1313.1	1050.1	977.3	884.1	897.1	1037.0	111.9	82.1	29.8
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°	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5	5802.5
2.5°	5739.0	5714.8	5634.6	5556.3	5481.7	5410.8	5364.2	5302.6	5261.6	5272.8	5289.5
5°	5595.4	5541.3	5399.6	5261.6	5131.0	4976.2	4851.2	4750.5	4674.0	4646.1	4640.5
7.5°	5444.4	5353.0	5149.7	4912.8	4690.8	4498.7	4276.8	4166.7	4038.0	3993.3	3978.3
10°	5353.0	5229.9	4944.5	4614.4	4280.5	3961.6	3721.0	3525.1	3347.9	3314.4	3297.6
12.5°	5326.8	5164.6	4780.4	4355.1	3911.2	3519.5	3163.3	2905.9	2734.3	2695.1	2637.3
15°	5311.9	5110.5	4627.4	4094.0	3530.7	3053.2	2678.3	2378.1	2221.4	2116.9	2118.8
17.5°	5298.9	5048.9	4455.8	3808.6	3202.5	2652.2	2238.2	1967.7	1824.1	1768.2	1762.6
20°	5280.2	4976.2	4258.1	3508.3	2827.6	2286.7	1911.8	1710.3	1613.3	1566.7	1564.9
22.5°	5272.8	4905.3	4064.1	3202.5	2495.6	2005.0	1695.4	1553.7	1492.1	1460.4	1460.4
25°	5291.4	4855.0	3860.8	2911.5	2200.9	1764.4	1546.2	1449.2	1413.8	1397.0	1391.4
27.5°	5349.2	4832.6	3659.4	2620.5	1930.4	1600.3	1445.5	1378.3	1352.2	1339.2	1341.0
30°	5459.3	4830.7	3461.7	2333.3	1729.0	1475.3	1365.3	1318.7	1298.1	1290.7	1288.8
32.5°	5636.5	4871.8	3267.7	2096.4	1559.3	1370.9	1290.7	1257.1	1247.8	1242.2	1240.3
35°	5936.8	4987.4	3075.6	1880.1	1428.7	1277.6	1219.8	1203.0	1190.0	1195.6	1197.4
37.5°	6341.5	5187.0	2892.8	1710.3	1329.8	1208.6	1160.1	1145.2	1137.7	1143.3	1148.9
40°	6884.2	5474.2	2739.9	1574.2	1259.0	1150.8	1107.9	1094.8	1087.4	1096.7	1098.6
42.5°	7483.0	5806.2	2613.1	1467.9	1201.2	1102.3	1061.3	1046.3	1040.7	1046.3	1048.2
45°	8098.5	6192.3	2547.8	1391.4	1152.7	1066.9	1024.0	1007.2	994.1	990.4	996.0
47.5°	8704.6	6528.0	2545.9	1344.8	1113.5	1035.2	988.5	969.9	953.1	943.8	941.9
50°	9198.9	6794.7	2590.7	1324.3	1079.9	999.7	953.1	934.4	912.1	893.4	897.1
52.5°	9571.9	6968.2	2611.2	1314.9	1061.3	962.4	915.8	899.0	872.9	848.6	848.6
55°	9812.5	7009.2	2560.8	1305.6	1046.3	923.2	872.9	858.0	831.9	807.6	807.6
57.5°	9894.6	6882.4	2379.9	1283.2	1031.4	889.7	830.0	816.9	796.4	772.2	768.4
60°	9704.3	6453.4	2062.8	1216.1	1001.6	854.2	783.4	777.8	770.3	749.8	747.9
62.5°	8971.3	5543.2	1717.8	1128.4	951.2	816.9	740.5	749.8	755.4	744.2	742.3
65°	7751.5	4500.6	1467.9	1007.2	884.1	764.7	693.8	718.1	733.0	733.0	729.3
67.5°	6287.4	3456.1	1236.6	902.7	800.1	693.8	641.6	660.3	671.5	667.7	677.0
70°	4468.9	2340.8	1007.2	783.4	693.8	613.6	574.5	574.5	567.0	563.3	563.3
72.5°	2167.3	1337.3	816.9	654.7	591.3	524.1	492.4	479.3	464.4	462.6	453.2
73°	1811.1	1199.3	779.6	630.4	567.0	511.0	475.6	455.1	445.8	438.3	436.4
75°	1102.3	910.2	650.9	531.6	483.1	440.2	408.5	389.8	380.5	374.9	373.0
77.5°	725.5	678.9	505.5	406.6	369.3	343.2	330.1	311.5	305.9	298.4	298.4
80°	540.9	518.5	361.8	287.2	264.9	242.5	238.7	235.0	220.1	210.8	207.0
82.5°	348.8	369.3	246.2	192.1	167.9	149.2	151.1	156.7	141.8	128.7	125.0
85°	248.1	266.7	149.2	87.7	70.9	61.5	69.0	61.5	63.4	50.4	41.0
87.5°	41.0	70.9	26.1	11.2	5.6	3.7	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)