

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: P526059

Luminaire Tested: **GALN-SA1A-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

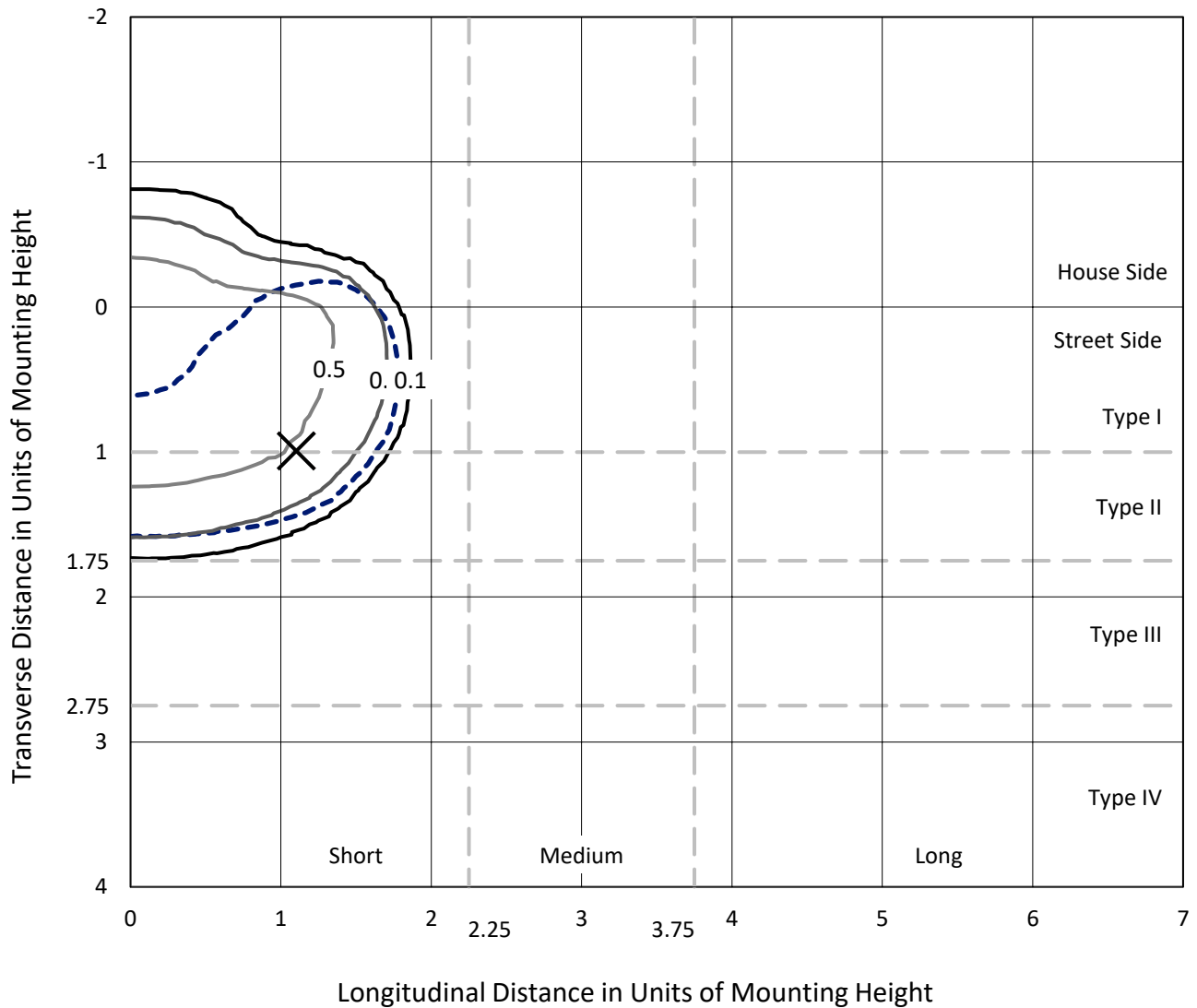
Lumens per Lamp: N/A  
Luminaire Lumens: 2311 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

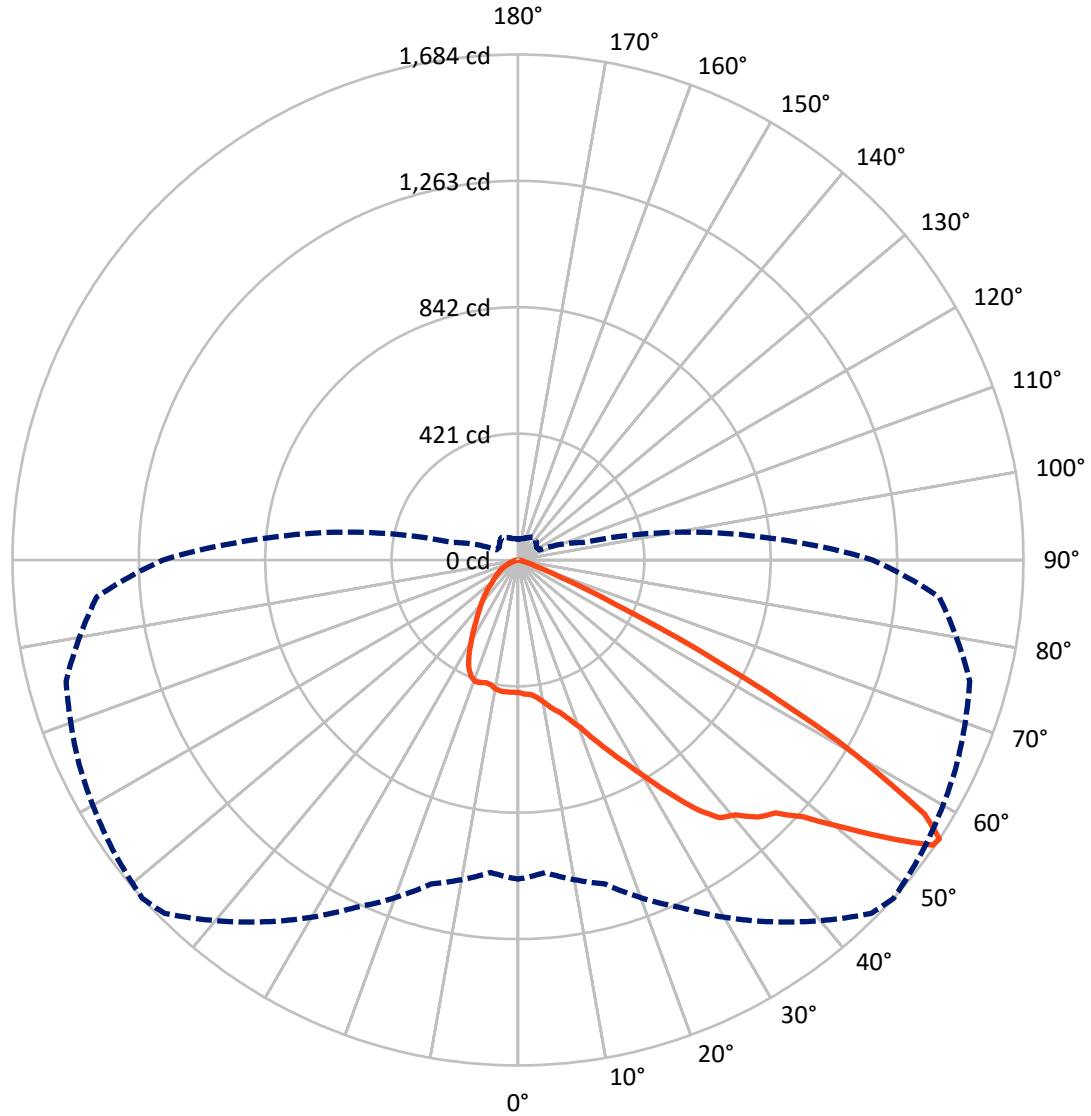
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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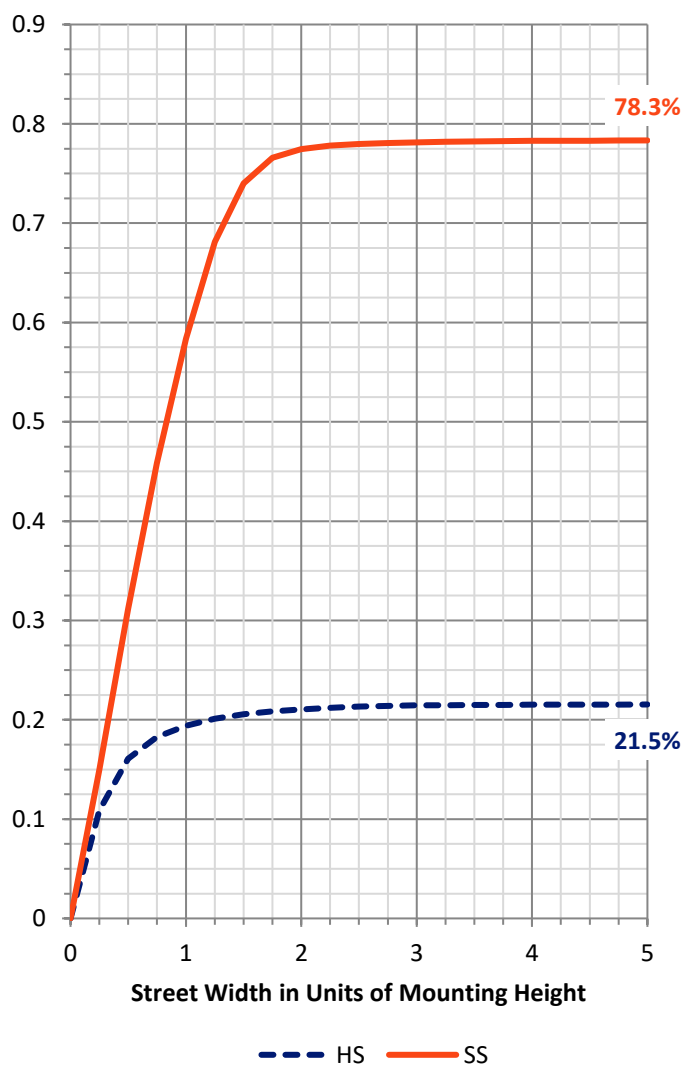
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	502.6	0.0	502.6
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	1808.4	0.0	1808.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	2311.0	0.0	2311.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	1.9
10°-20°	137.4	5.9
20°-30°	249.2	10.8
30°-40°	391.5	16.9
40°-50°	571.1	24.7
50°-60°	688.1	29.8
60°-70°	201.5	8.7
70°-80°	25.6	1.1
80°-90°	3.6	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°	2311.0	100.0
0°-180°	2311.0	100.0

**Coefficient of Utilization**



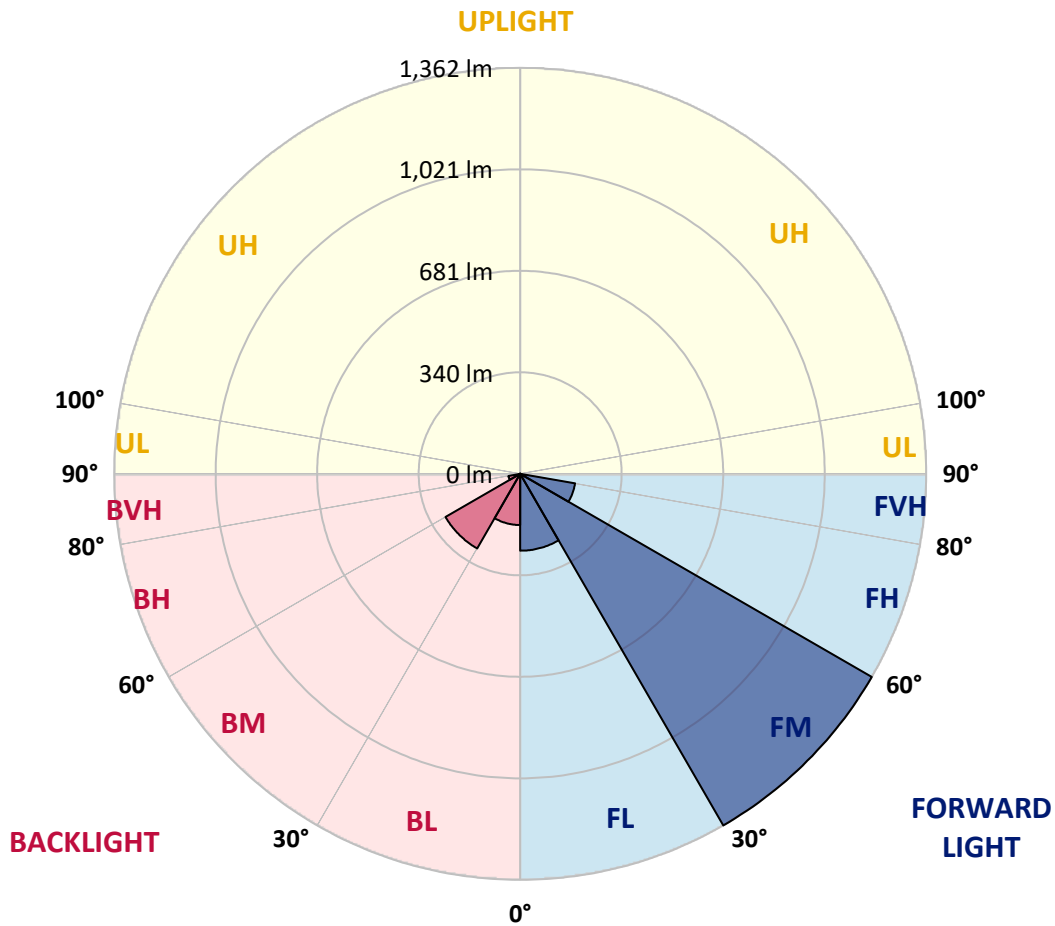
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	257.9	11.2			
FM (30°-60°)	1361.7	58.9			
FH (60°-80°)	187.1	8.1			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	171.8	7.4	B1/500		
BM (30°-60°)	289.1	12.5	B1/1000		
BH (60°-80°)	39.9	1.7	B0/110		G0/110
BVH (80°-90°)	1.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4
2.5°	449.4	447.3	447.3	443.9	447.7	446.0	447.3	443.1	447.3	441.0	446.0
5°	451.5	451.9	450.2	452.3	452.3	454.9	450.7	454.4	456.6	451.9	449.8
7.5°	462.4	463.3	462.9	461.2	464.5	464.1	463.7	460.8	461.6	459.9	457.4
10°	483.9	483.5	485.6	481.4	478.9	481.8	482.6	478.0	474.6	473.4	465.4
12.5°	515.0	510.0	507.0	502.8	504.1	499.9	507.5	499.5	497.8	490.2	482.2
15°	540.3	539.4	539.9	533.1	525.6	527.2	527.2	523.0	520.5	511.3	499.9
17.5°	592.0	574.4	578.2	569.7	563.4	563.0	559.2	560.1	553.3	534.0	516.7
20°	632.4	624.9	619.0	604.7	595.0	597.9	596.3	592.0	589.9	564.7	540.3
22.5°	668.6	671.1	661.5	657.7	644.2	645.5	648.8	645.1	629.1	603.0	566.8
25°	719.5	716.6	703.6	698.9	686.3	690.9	704.0	701.0	690.9	643.8	587.4
27.5°	779.7	769.6	772.1	751.1	738.9	751.9	767.5	782.2	753.6	691.8	611.8
30°	822.2	811.7	810.9	810.0	807.1	822.2	840.3	853.8	830.6	739.7	652.2
32.5°	843.3	845.8	852.9	850.4	876.1	907.2	926.1	945.5	916.5	818.0	705.7
35°	899.2	883.2	899.2	900.9	927.4	993.5	1017.5	1063.7	1056.6	928.7	770.9
37.5°	932.0	930.8	932.9	948.9	974.5	1056.2	1090.3	1126.0	1112.6	995.2	852.1
40°	986.3	989.7	989.3	1001.5	1029.7	1103.3	1117.2	1146.2	1147.5	1087.3	971.6
42.5°	1073.4	1060.0	1051.1	1063.7	1103.3	1144.1	1171.9	1166.0	1207.6	1199.2	1125.2
45°	1151.7	1159.7	1146.6	1167.7	1182.0	1203.9	1203.0	1215.6	1268.7	1308.6	1240.9
47.5°	1224.9	1230.0	1236.3	1250.6	1281.7	1285.1	1277.9	1272.4	1345.7	1386.9	1330.5
50°	1268.7	1273.3	1302.7	1328.4	1386.5	1394.1	1398.3	1384.4	1434.0	1438.7	1415.1
52.5°	1256.9	1261.9	1303.2	1387.7	1480.3	1549.7	1537.1	1513.6	1510.6	1528.7	1493.4
55°	1152.5	1147.9	1204.7	1336.4	1509.8	1676.4	1678.1	1653.3	1605.7	1593.5	1481.6
56°	1063.7	1045.6	1118.0	1277.1	1471.9	1665.5	1684.4	1657.9	1613.3	1558.6	1408.8
57.5°	871.4	888.7	960.6	1092.4	1341.0	1586.8	1597.7	1591.4	1557.7	1466.0	1239.6
60°	480.5	510.8	574.4	735.5	954.8	1217.7	1226.6	1277.9	1284.2	1122.7	852.9
62.5°	204.1	200.7	266.8	385.4	543.7	735.1	751.5	804.1	813.8	647.2	427.9
65°	82.9	87.5	120.8	194.0	287.4	334.9	358.1	375.3	407.3	267.2	157.8
67.5°	54.7	54.3	71.1	110.7	154.8	149.4	149.4	157.8	146.0	109.0	68.2
70°	39.1	40.4	50.9	76.6	96.4	71.5	68.6	65.6	74.5	72.0	55.1
72.5°	25.7	27.4	34.1	45.9	50.1	39.1	39.1	47.1	61.4	58.1	45.0
75°	16.8	17.3	21.0	26.5	24.8	20.2	22.3	31.6	44.6	42.9	32.0
77.5°	11.4	11.8	14.3	17.3	13.9	11.4	12.2	16.0	21.9	21.9	16.8
80°	4.2	4.6	5.9	5.5	6.3	8.0	8.8	10.9	13.0	13.0	11.4
82.5°	0.0	0.4	1.3	2.9	4.6	6.3	7.2	8.4	9.7	10.9	10.5
85°	0.0	0.4	1.3	2.1	3.4	3.8	4.2	2.9	2.5	2.5	2.1
87.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4	0.4
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°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4
2.5°	441.4	441.0	441.0	439.7	442.2	441.0	441.8	441.4	435.9	440.1	437.2
5°	446.0	449.0	444.3	443.5	440.1	441.4	441.4	437.2	441.0	440.6	439.7
7.5°	457.8	452.8	447.7	442.7	441.8	440.6	435.9	434.2	437.2	433.8	438.9
10°	462.9	463.7	456.1	449.4	443.1	434.2	427.9	424.1	419.5	424.6	427.5
12.5°	486.0	477.6	464.5	454.0	432.6	423.7	417.4	415.7	423.7	425.4	422.5
15°	494.0	492.7	475.9	452.3	430.0	419.5	420.8	417.4	418.3	414.1	414.9
17.5°	510.4	496.1	476.3	446.9	429.6	427.1	419.5	406.1	398.5	395.1	398.1
20°	528.5	514.6	486.0	449.0	433.4	426.7	401.8	385.4	369.9	361.5	361.9
22.5°	544.5	527.2	481.8	449.8	436.8	409.0	379.1	346.7	327.4	314.3	314.7
25°	563.9	539.4	483.5	451.5	427.9	380.8	337.9	306.3	283.2	274.4	277.3
27.5°	574.8	547.0	492.7	455.3	404.8	340.8	294.5	265.1	251.6	247.4	247.0
30°	607.6	563.9	504.1	447.7	366.1	297.9	255.0	236.9	223.9	220.1	220.9
32.5°	656.4	594.6	518.8	427.9	326.5	259.6	229.3	215.9	203.7	196.5	195.7
35°	697.2	647.2	534.4	397.2	280.7	230.2	211.2	194.4	175.9	167.9	165.8
37.5°	775.1	706.5	531.0	350.9	236.9	208.3	191.9	171.3	155.3	144.3	143.1
40°	878.6	775.9	514.6	294.5	204.5	188.9	171.3	151.5	131.7	122.4	121.6
42.5°	1004.4	860.9	484.7	237.3	172.1	169.6	153.6	130.9	113.2	106.5	106.9
45°	1106.7	933.7	454.4	190.6	148.1	150.6	136.8	115.3	103.1	97.6	97.6
47.5°	1197.6	983.0	421.6	157.4	125.8	131.7	119.5	106.9	96.4	92.2	91.3
50°	1285.1	1033.0	388.8	127.5	107.3	113.2	111.9	101.8	93.4	88.4	88.8
52.5°	1339.8	1041.0	347.1	104.4	93.8	100.6	104.8	95.5	86.3	83.3	82.5
55°	1272.9	937.9	269.3	85.8	79.5	88.4	96.4	85.8	78.7	73.6	73.2
56°	1182.8	838.6	225.1	79.1	75.3	85.0	93.4	82.1	74.1	71.1	69.0
57.5°	1001.5	686.3	166.2	70.3	69.9	79.1	88.8	78.3	69.0	66.5	66.5
60°	624.4	386.3	100.6	58.9	60.6	70.3	79.9	69.9	61.4	61.4	62.7
62.5°	284.4	160.7	61.0	50.1	52.2	60.6	71.1	63.1	58.5	63.1	64.0
65°	96.8	69.4	44.2	40.0	41.2	50.1	61.0	64.0	63.5	66.5	68.2
67.5°	54.3	44.6	37.0	33.2	32.4	37.0	50.1	64.0	61.4	60.2	61.0
70°	45.9	37.9	32.8	29.5	28.2	29.9	38.7	48.4	43.3	42.1	41.2
72.5°	37.0	31.6	28.6	26.5	22.7	19.4	17.7	18.5	20.6	21.9	24.0
75°	26.1	24.0	24.0	21.5	16.4	12.2	9.7	8.0	5.5	3.8	4.2
77.5°	14.7	14.7	15.1	13.0	10.5	8.0	5.9	4.2	2.1	0.8	0.4
80°	10.1	10.9	11.8	10.5	8.8	7.2	5.0	2.9	1.3	0.0	0.0
82.5°	10.1	11.4	12.2	10.5	8.8	6.7	5.0	2.9	1.3	0.4	0.0
85°	2.1	2.5	2.9	3.4	5.0	5.0	3.8	2.5	1.3	0.4	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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)