

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: P526055

Luminaire Tested: **GALN-SA1A-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526055  
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-SA1A-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH  
BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2283 lumens  
Efficiency: N/A  
Efficacy: 69.2 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

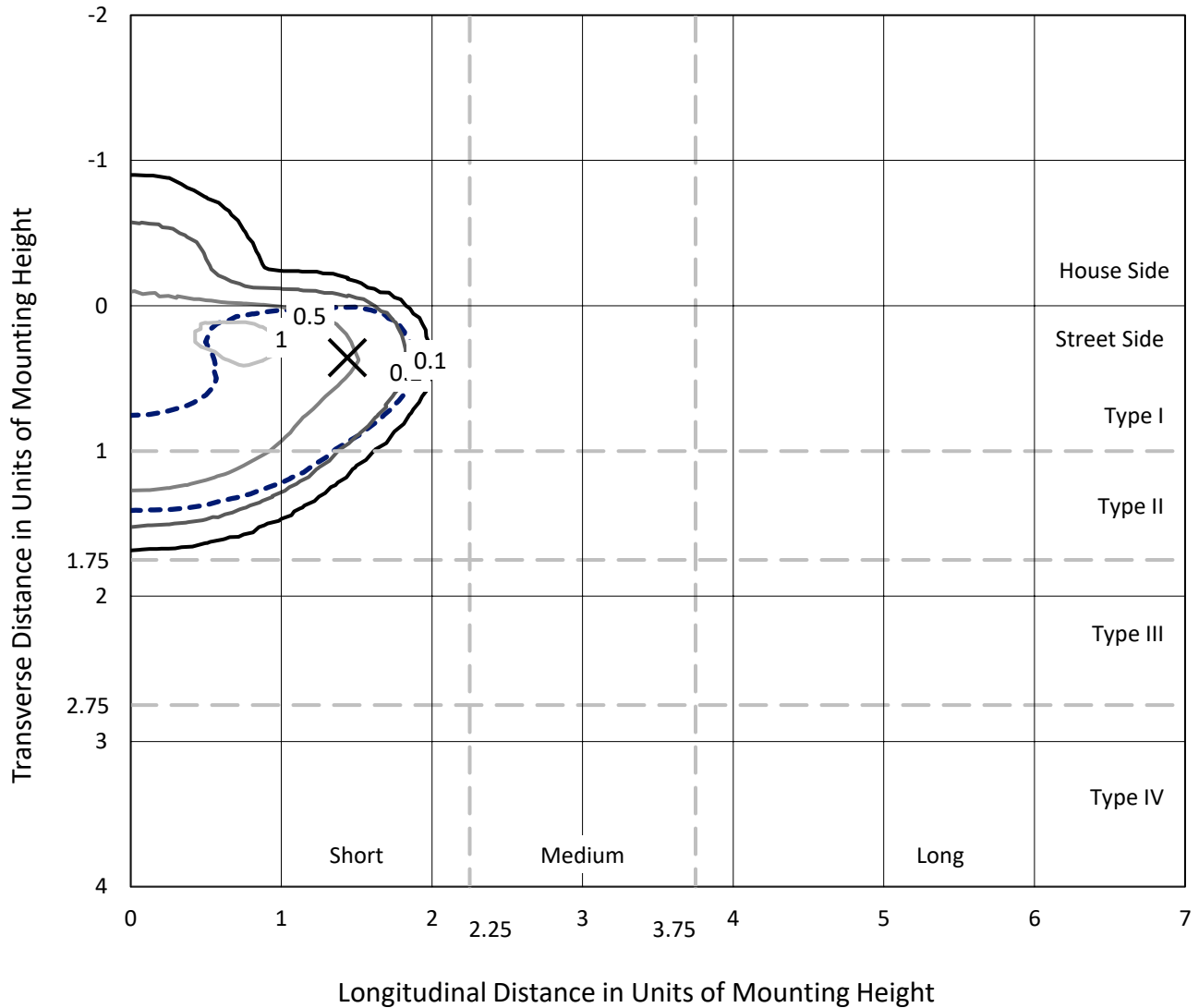
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

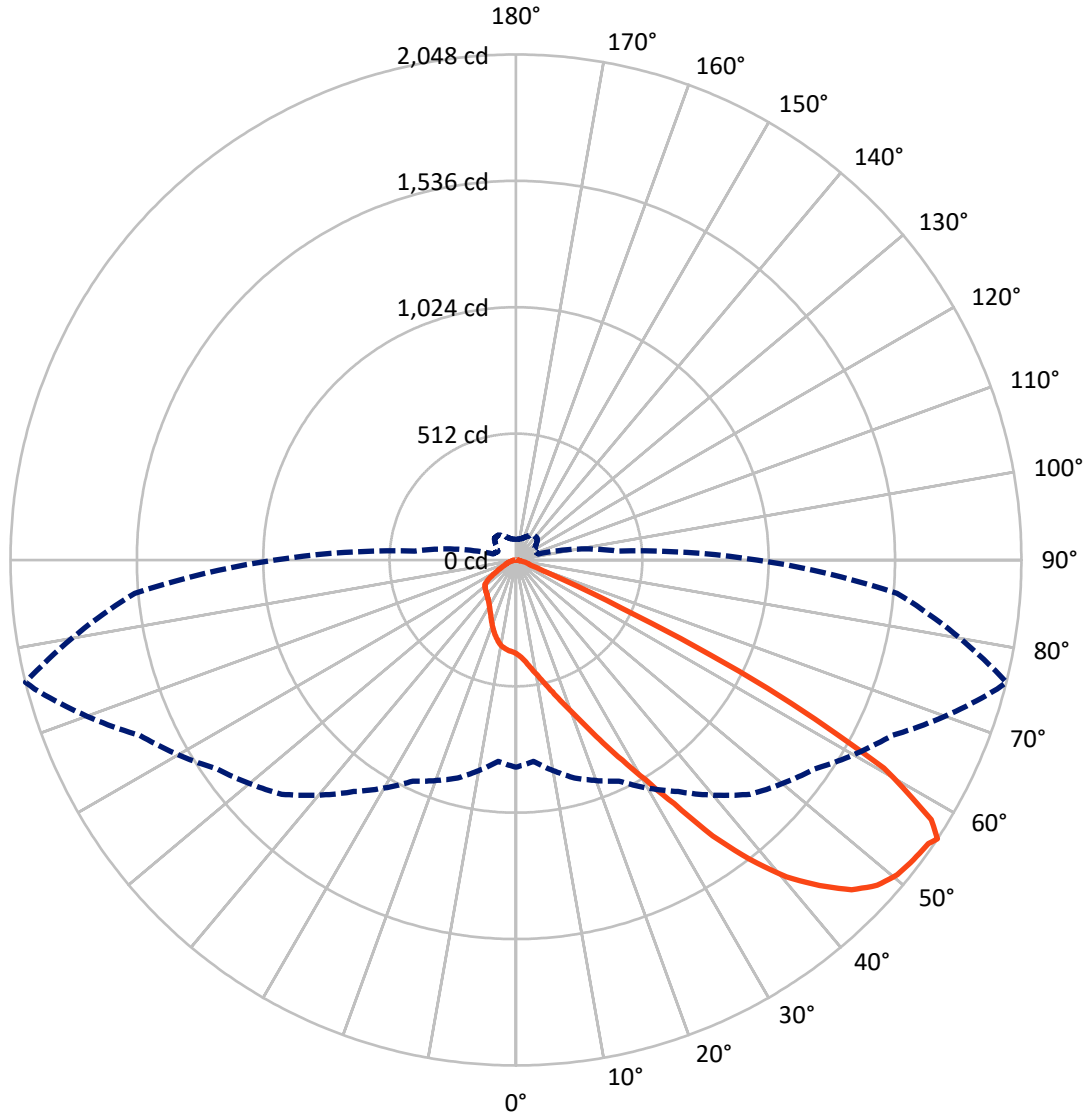
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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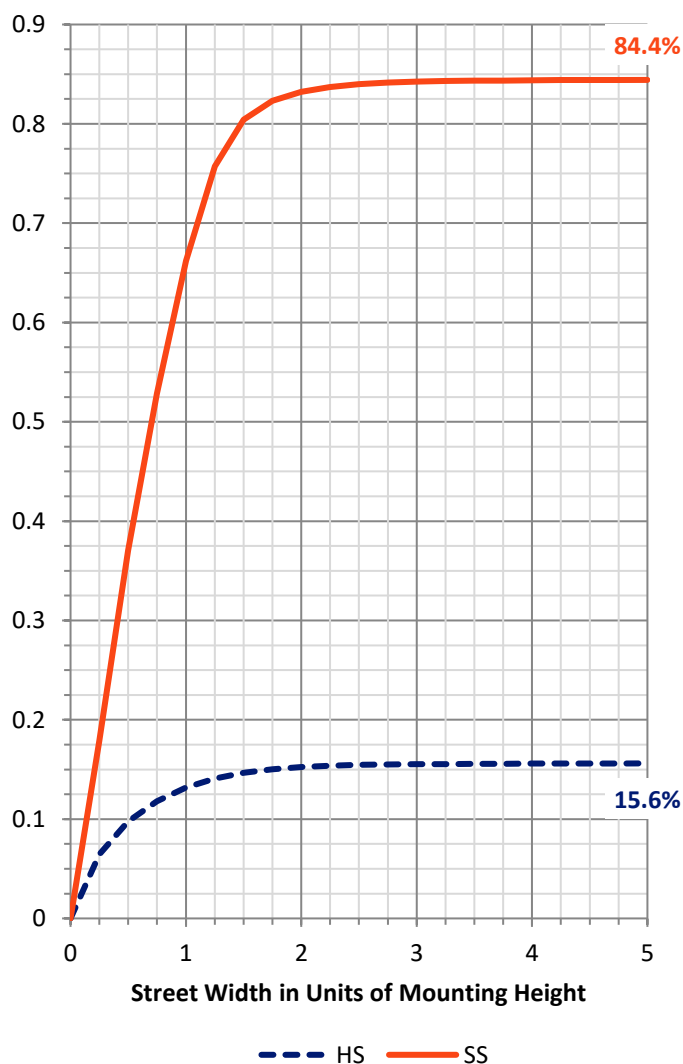
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	358.6	0.0	358.6
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	1924.3	0.0	1924.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	2283.0	0.0	2283.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.3	1.7
10°-20°	123.0	5.4
20°-30°	223.0	9.8
30°-40°	384.6	16.8
40°-50°	624.7	27.4
50°-60°	658.5	28.8
60°-70°	201.2	8.8
70°-80°	25.8	1.1
80°-90°	3.9	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°	2283.0	100.0
0°-180°	2283.0	100.0

**Coefficient of Utilization**

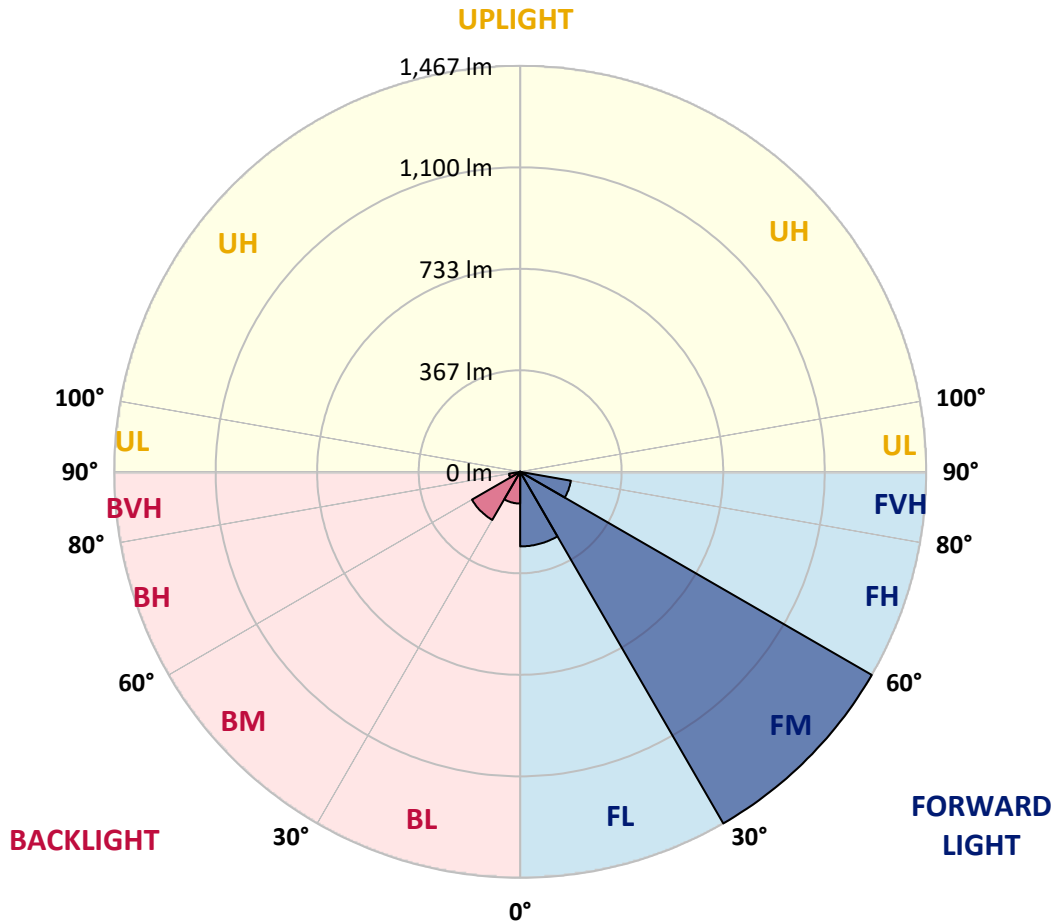


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	269.5	11.8			
FM (30°-60°)	1466.8	64.3			
FH (60°-80°)	186.1	8.2			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	114.7	5.0	B1/500		
BM (30°-60°)	201.0	8.8	B0/220		
BH (60°-80°)	40.9	1.8	B0/110		G0/110
BVH (80°-90°)	2.0	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°	55°	65°	75°	76°	85°
0°	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0
2.5°	437.7	427.6	428.0	427.1	425.9	421.3	407.4	405.3	396.0	393.5	385.1
5°	490.3	481.4	486.5	478.9	471.7	467.5	444.8	434.3	419.6	414.1	402.3
7.5°	523.1	518.9	517.2	517.6	510.9	500.4	490.3	467.1	447.3	443.1	418.3
10°	539.1	536.6	539.1	537.8	540.8	542.0	524.4	510.5	481.4	474.3	435.6
12.5°	542.9	547.9	550.0	555.5	562.6	574.9	573.6	554.7	515.9	511.3	462.1
15°	552.1	556.3	554.2	563.1	576.5	597.2	608.1	605.2	563.5	555.1	492.8
17.5°	560.5	553.0	560.1	577.8	591.3	622.8	649.3	661.5	615.3	605.6	521.0
20°	571.9	569.8	568.5	577.4	601.4	643.4	696.1	718.4	673.3	663.2	561.4
22.5°	606.4	606.8	606.0	592.9	610.2	657.8	736.9	792.0	742.8	734.3	607.3
25°	651.9	646.4	642.2	631.7	629.6	670.8	778.1	882.1	826.1	820.2	656.9
27.5°	699.8	699.8	687.2	677.5	664.1	703.2	816.0	969.6	926.7	918.7	700.3
30°	752.0	755.0	753.3	732.7	724.2	738.6	854.7	1081.5	1042.0	1031.9	771.8
32.5°	829.0	822.7	829.9	812.6	787.8	800.4	915.7	1181.7	1191.8	1177.5	865.6
35°	930.9	927.1	922.5	894.3	864.8	874.9	1002.0	1305.0	1379.9	1372.7	960.3
37.5°	1022.2	1020.1	1016.3	996.9	962.9	975.1	1100.0	1433.3	1563.4	1539.8	1094.2
40°	1118.1	1129.5	1117.3	1100.0	1068.9	1095.8	1215.4	1509.5	1717.8	1689.2	1196.4
42.5°	1248.2	1239.3	1244.8	1213.3	1196.4	1225.9	1331.1	1585.7	1837.8	1803.7	1305.0
45°	1386.6	1387.1	1372.3	1362.2	1318.5	1350.4	1402.2	1627.8	1933.3	1906.8	1387.1
47.5°	1475.4	1475.0	1491.0	1507.0	1462.0	1430.4	1450.6	1667.7	1982.5	1970.3	1416.9
50°	1461.5	1465.7	1486.4	1546.1	1569.7	1527.2	1496.0	1656.0	2004.8	2003.6	1442.6
52.5°	1271.3	1285.2	1319.7	1406.0	1524.7	1577.3	1543.6	1677.8	2015.8	2017.9	1480.9
55°	967.9	975.5	1041.1	1145.9	1277.2	1457.3	1524.7	1695.1	2024.2	2028.0	1527.2
56°	839.6	819.4	914.0	988.5	1145.5	1342.4	1476.7	1681.6	2019.1	2048.2	1550.3
57.5°	633.8	620.3	696.9	789.9	941.0	1148.9	1327.7	1618.1	1985.1	1984.6	1517.1
60°	385.5	372.0	430.9	485.6	570.2	707.4	897.2	1288.6	1678.3	1713.6	1228.4
62.5°	229.4	237.8	295.8	329.1	356.4	370.8	464.2	765.9	1119.8	1145.1	762.1
65°	152.8	155.7	199.5	254.2	266.4	212.1	189.0	310.2	485.6	470.1	314.4
67.5°	94.3	101.0	133.8	191.1	211.7	154.9	89.6	115.7	133.8	133.8	90.9
70°	57.2	60.6	89.2	130.0	145.2	99.7	65.2	65.2	64.4	63.1	54.3
72.5°	27.4	29.5	45.4	66.9	68.2	52.6	50.5	55.1	53.9	53.4	45.0
75°	11.8	12.6	16.0	21.0	24.0	22.3	30.7	39.6	40.8	39.6	32.4
77.5°	3.8	4.2	5.9	7.6	8.0	9.7	13.0	16.4	18.9	17.7	16.0
80°	0.4	0.8	1.7	3.8	5.9	7.6	9.7	10.9	12.2	12.2	11.4
82.5°	0.4	0.4	1.7	3.4	5.5	7.2	9.3	10.5	12.2	12.6	11.8
85°	0.0	0.4	1.3	2.9	4.6	4.6	4.2	4.2	2.9	2.9	2.9
87.5°	0.0	0.0	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8
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°	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0
2.5°	383.4	382.5	371.2	364.0	360.2	352.7	348.0	344.7	342.1	339.2	339.6
5°	388.4	385.5	366.5	353.5	337.9	329.5	322.4	316.5	312.7	311.8	310.2
7.5°	402.7	387.2	358.5	335.0	315.2	306.8	300.5	296.7	298.4	294.6	297.5
10°	413.7	390.5	348.9	314.8	295.0	288.7	285.3	288.3	292.5	290.8	288.7
12.5°	427.1	393.9	333.3	295.4	276.9	272.3	278.2	283.6	292.1	295.4	291.2
15°	442.3	397.7	313.5	273.1	261.3	265.1	275.2	284.9	293.3	297.5	300.1
17.5°	460.8	396.4	294.2	255.4	246.6	257.5	269.8	278.6	291.2	297.5	295.8
20°	478.1	392.2	272.7	237.8	238.2	248.3	258.4	272.7	279.4	287.8	284.9
22.5°	494.5	384.6	250.4	225.6	225.6	241.1	246.2	255.4	261.3	265.5	265.1
25°	517.6	370.3	231.9	213.8	218.8	228.9	233.1	236.1	233.6	236.9	237.3
27.5°	534.0	355.6	216.7	203.3	212.5	220.1	218.8	217.1	211.3	206.6	209.6
30°	551.7	338.3	203.7	196.1	201.2	207.9	202.8	197.8	188.5	181.0	181.4
32.5°	577.0	330.4	192.3	187.7	194.4	195.3	189.8	182.2	173.0	165.8	165.4
35°	624.1	325.3	182.6	182.2	183.5	183.9	178.4	169.2	165.4	159.5	161.6
37.5°	671.2	322.8	175.9	174.2	173.8	174.2	167.9	159.1	166.2	165.8	166.6
40°	731.4	334.1	166.2	164.1	164.5	164.5	156.5	154.0	166.6	167.9	168.3
42.5°	792.4	348.4	159.9	153.2	154.9	154.9	150.7	147.7	156.5	148.1	146.9
45°	845.4	369.5	153.2	142.2	146.4	148.6	147.3	142.2	136.8	122.5	122.5
47.5°	862.7	388.0	145.2	131.7	135.1	144.3	140.6	130.0	120.4	108.6	107.7
50°	893.0	408.2	138.9	119.5	126.7	138.0	134.2	123.7	112.8	104.4	104.8
52.5°	924.1	431.3	127.1	105.2	114.0	133.0	133.0	121.2	104.4	98.5	97.6
55°	970.9	430.5	106.0	86.3	101.8	125.4	127.5	108.6	93.4	88.8	88.8
56°	977.6	411.2	95.5	80.8	96.4	123.3	123.7	105.2	89.2	84.2	84.2
57.5°	927.1	371.2	83.7	74.1	89.6	119.5	119.9	102.3	85.8	78.7	77.9
60°	713.3	251.2	69.9	66.1	81.2	107.7	109.8	93.0	75.3	69.9	69.4
62.5°	402.7	139.3	61.4	59.8	69.9	91.7	98.1	81.2	64.0	61.0	61.9
65°	183.9	76.6	51.8	48.4	56.4	70.7	79.1	66.9	52.6	49.2	49.2
67.5°	67.3	52.2	44.2	38.3	39.6	45.9	51.3	43.3	34.9	29.9	31.1
70°	48.0	43.8	38.7	33.2	30.7	29.9	29.5	24.4	17.3	13.5	14.3
72.5°	38.7	36.2	32.4	28.2	24.0	20.2	17.3	12.6	8.0	5.5	5.0
75°	27.8	26.5	23.6	20.2	16.8	14.3	11.8	8.0	4.2	2.1	2.1
77.5°	14.3	14.3	13.9	12.6	10.5	8.4	6.7	4.6	2.5	0.8	0.8
80°	10.9	11.8	12.2	10.9	9.7	7.6	5.5	3.4	1.7	0.4	0.4
82.5°	10.5	12.2	13.0	11.4	9.7	7.2	5.5	3.4	1.7	0.4	0.4
85°	2.5	2.5	3.8	4.2	5.5	5.9	4.6	2.9	1.3	0.4	0.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	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)