

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: P594591

Luminaire Tested: **ISS-PA1B-827-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1B-827-U-T3-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2920 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

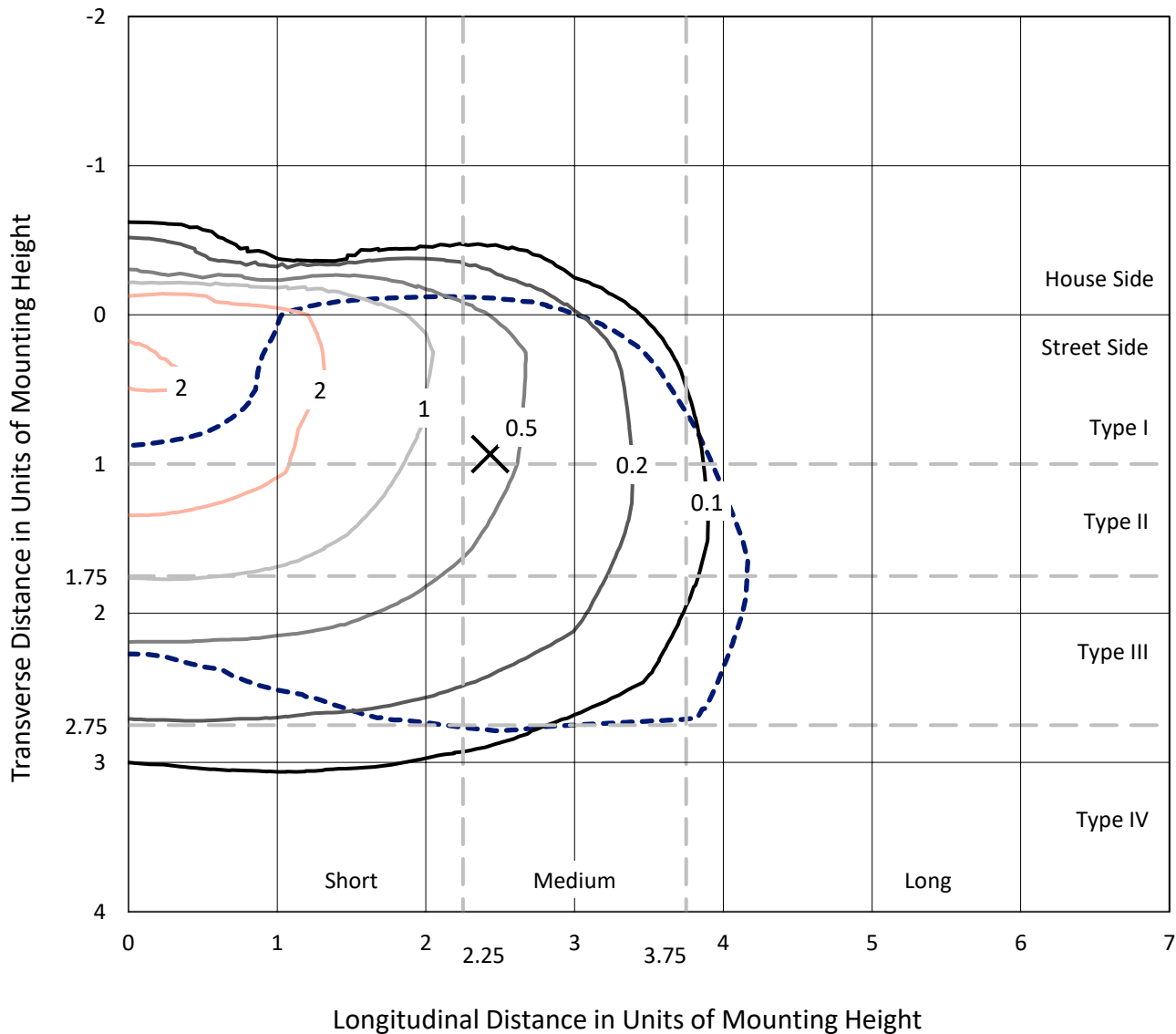
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

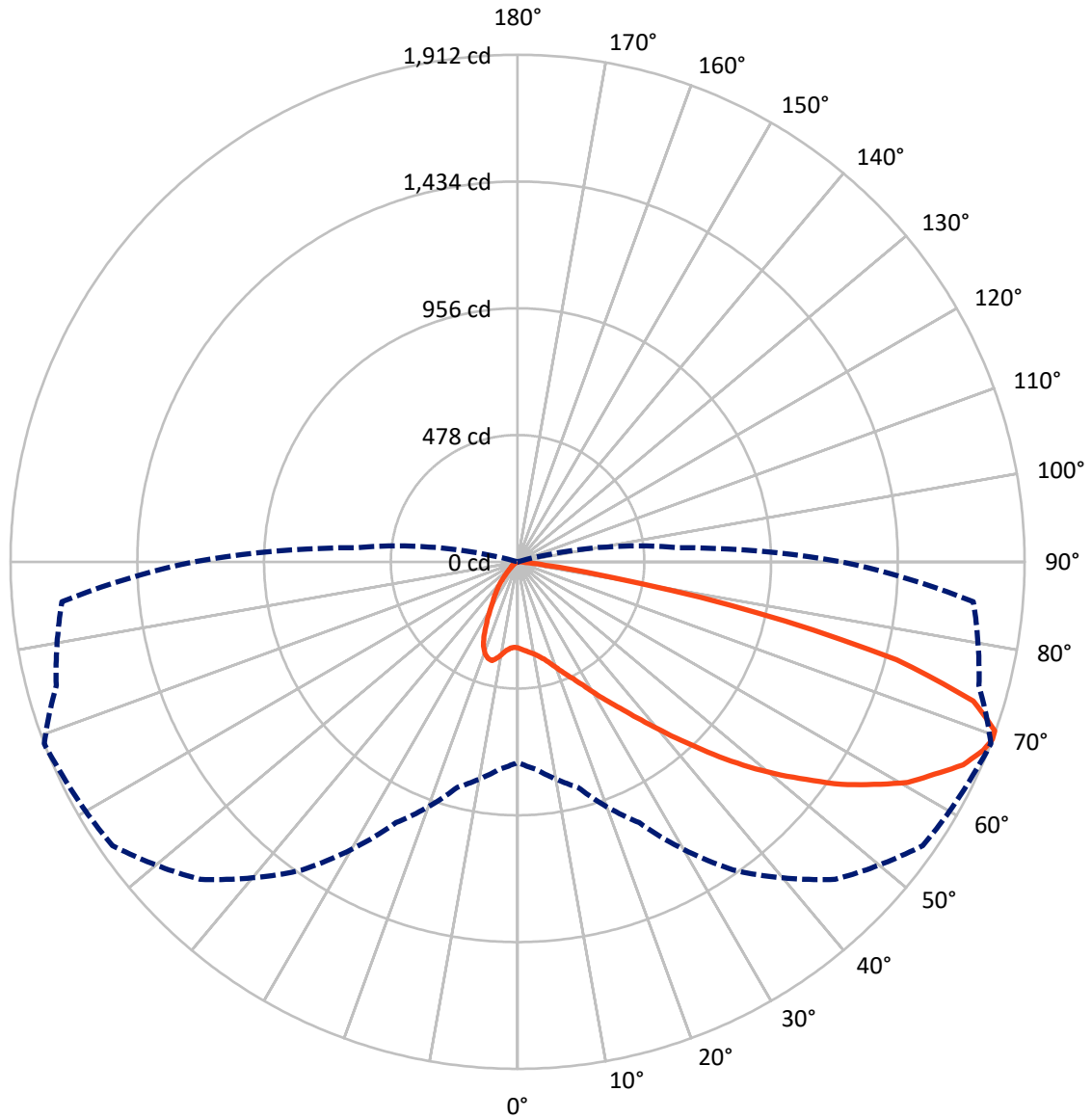
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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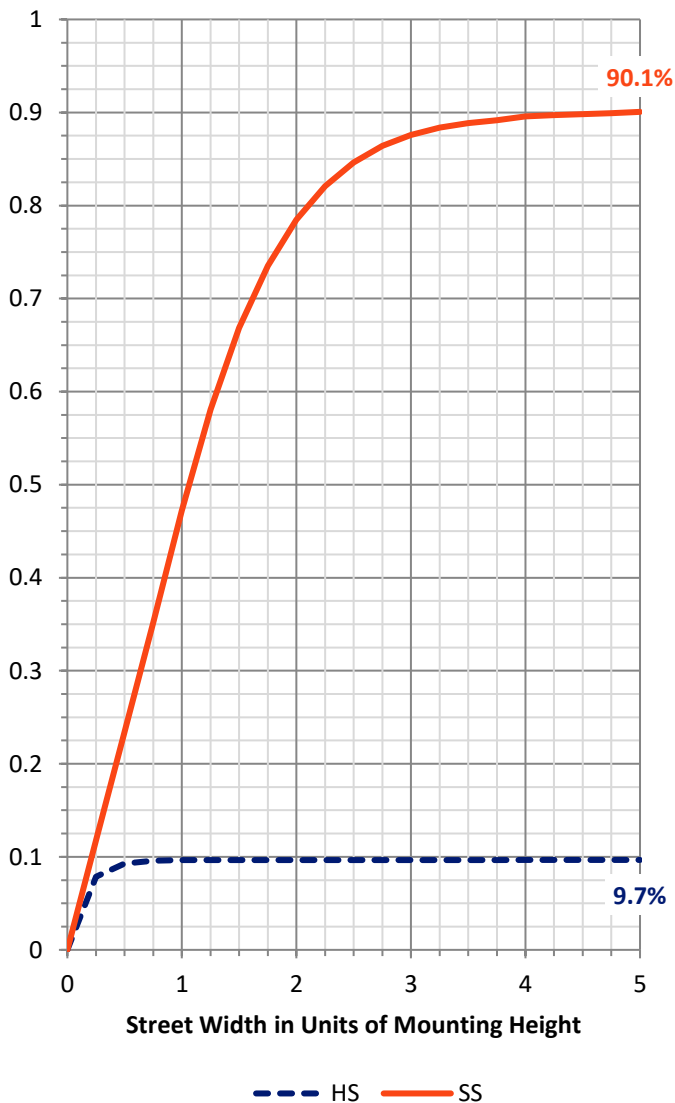
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	284.5	0.0	284.5
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	2635.5	0.0	2635.5
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	2920.0	0.0	2920.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.0	1.1
10°-20°	81.9	2.8
20°-30°	136.4	4.7
30°-40°	245.6	8.4
40°-50°	445.4	15.3
50°-60°	696.0	23.8
60°-70°	805.2	27.6
70°-80°	450.3	15.4
80°-90°	28.1	1.0
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°	2920.0	100.0
0°-180°	2920.0	100.0

**Coefficient of Utilization**

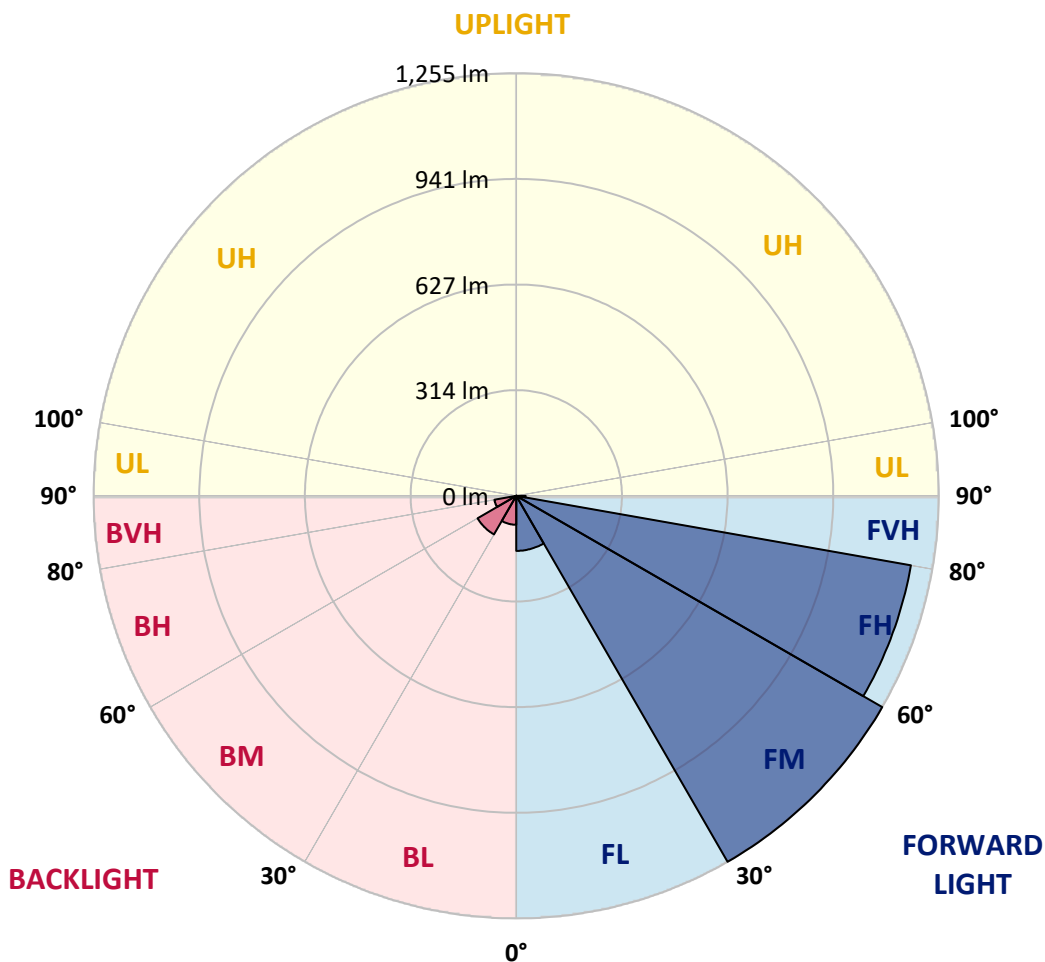


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.4	5.6			
FM (30°-60°)	1254.5	43.0			
FH (60°-80°)	1189.7	40.7			G1/1800
FVH (80°-90°)	27.9	1.0			G1/100
BL (0°-30°)	86.0	2.9	B0/110		
BM (30°-60°)	132.5	4.5	B0/220		
BH (60°-80°)	65.9	2.3	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8
2.5°	336.5	336.5	336.5	334.5	335.5	334.5	333.6	330.6	331.6	330.6	327.7
5°	324.8	325.8	328.7	330.6	335.5	337.4	338.4	338.4	337.4	335.5	333.6
7.5°	302.4	302.4	305.4	311.2	320.9	331.6	340.4	345.2	346.2	346.2	343.3
10°	296.6	296.6	300.5	304.4	314.1	326.7	340.4	352.0	354.0	355.9	354.9
12.5°	293.7	294.7	298.5	305.4	318.0	329.7	344.3	360.8	366.6	371.5	372.5
15°	297.6	297.6	301.5	308.3	322.9	339.4	357.9	376.3	382.2	389.0	393.8
17.5°	303.4	305.4	307.3	314.1	327.7	348.1	372.5	396.8	403.6	412.3	416.2
20°	313.1	313.1	315.1	320.9	335.5	359.8	393.8	423.0	428.9	434.7	439.6
22.5°	324.8	325.8	325.8	330.6	347.2	373.4	412.3	448.3	458.0	460.9	462.9
25°	359.8	357.9	351.1	348.1	360.8	389.0	434.7	478.5	489.1	492.1	488.2
27.5°	432.7	425.0	406.5	387.0	385.1	413.3	464.8	516.4	528.0	529.0	515.4
30°	524.2	525.1	495.0	453.2	425.0	439.6	497.9	564.0	575.7	570.8	549.4
32.5°	637.0	632.1	609.7	549.4	493.0	480.4	533.9	613.6	627.2	619.5	591.3
35°	733.2	736.2	708.9	655.4	584.5	543.6	577.6	669.1	685.6	672.0	637.0
37.5°	814.0	817.8	801.3	757.5	694.3	630.2	635.0	734.2	756.6	743.0	699.2
40°	903.4	906.3	899.5	851.9	795.5	733.2	711.8	809.1	839.2	820.8	775.1
42.5°	1001.6	1012.3	1000.7	962.7	904.4	850.9	818.8	900.5	930.6	919.0	857.7
45°	1135.8	1136.8	1123.2	1085.3	1025.0	981.2	942.3	997.7	1036.6	1022.1	950.1
47.5°	1235.0	1241.8	1234.1	1207.8	1159.2	1130.0	1076.5	1104.7	1145.6	1127.1	1045.4
50°	1310.9	1329.4	1322.6	1330.3	1306.0	1293.4	1211.7	1215.6	1255.5	1239.9	1142.6
52.5°	1352.7	1376.0	1378.0	1417.9	1438.3	1469.4	1343.0	1337.1	1362.4	1348.8	1241.8
55°	1346.9	1352.7	1401.3	1474.3	1554.0	1625.0	1471.3	1447.0	1482.0	1444.1	1346.9
57.5°	1290.5	1305.0	1390.6	1481.1	1622.1	1725.2	1582.2	1555.0	1584.1	1533.6	1454.8
60°	1209.7	1231.1	1341.0	1470.4	1661.9	1785.4	1690.1	1662.9	1689.2	1627.9	1577.3
62.5°	1136.8	1146.5	1247.7	1425.6	1638.6	1782.5	1773.8	1748.5	1764.0	1699.9	1682.4
65°	1032.8	1036.6	1136.8	1344.9	1587.1	1763.1	1819.5	1829.2	1845.7	1760.2	1757.2
67.5°	872.3	881.1	980.2	1203.9	1501.5	1725.2	1855.5	1874.9	1894.4	1792.3	1770.9
69°	756.6	784.8	880.1	1085.3	1418.8	1693.1	1865.2	1896.3	1911.9	1801.0	1725.2
70°	662.2	686.6	796.4	993.9	1345.9	1657.1	1872.0	1893.4	1908.9	1782.5	1650.3
72.5°	332.6	363.7	514.4	725.5	1069.7	1492.7	1837.0	1813.6	1797.1	1639.6	1335.2
75°	128.4	133.2	220.7	413.3	669.1	1096.0	1568.6	1524.8	1476.2	1243.8	791.6
77.5°	71.0	70.0	96.3	182.8	284.9	535.8	1061.0	990.9	923.8	668.1	320.9
80°	30.1	32.1	41.8	87.5	149.8	185.7	515.4	458.0	364.7	212.0	76.8
82.5°	18.5	19.4	29.2	53.5	104.1	71.0	167.3	143.0	105.0	57.4	18.5
85°	5.8	6.8	20.4	36.0	50.6	29.2	37.9	33.1	29.2	24.3	5.8
87.5°	1.0	1.0	7.8	19.4	13.6	4.9	3.9	6.8	10.7	11.7	1.9
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°	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8
2.5°	326.7	324.8	322.9	321.9	321.9	319.9	319.0	318.0	318.0	317.0	317.0
5°	330.6	328.7	326.7	325.8	323.8	322.9	322.9	322.9	321.9	322.9	323.8
7.5°	340.4	337.4	336.5	335.5	335.5	332.6	327.7	315.1	302.4	298.5	294.7
10°	354.0	353.0	353.0	353.0	346.2	320.9	285.9	254.8	238.3	224.6	224.6
12.5°	373.4	373.4	372.5	369.5	334.5	273.3	218.8	172.1	144.9	129.3	131.3
15°	394.8	393.8	395.8	377.3	294.7	211.0	132.3	93.4	78.8	76.8	76.8
17.5°	417.2	419.1	417.2	356.9	242.1	130.3	78.8	71.0	69.0	69.0	69.0
20°	440.5	438.6	435.7	321.9	176.0	81.7	68.1	66.1	64.2	63.2	63.2
22.5°	463.9	461.9	442.5	277.2	109.9	67.1	64.2	60.3	57.4	56.4	56.4
25°	486.2	486.2	429.8	219.8	74.9	63.2	58.3	54.5	51.5	48.6	48.6
27.5°	514.4	516.4	409.4	153.6	63.2	58.3	52.5	46.7	42.8	40.8	40.8
30°	546.5	549.4	376.3	100.2	57.4	51.5	45.7	38.9	33.1	31.1	30.1
32.5°	584.5	587.4	338.4	66.1	51.5	44.7	37.9	29.2	23.3	22.4	21.4
35°	633.1	626.3	292.7	52.5	44.7	37.9	29.2	20.4	16.5	15.6	15.6
37.5°	693.4	678.8	240.2	45.7	37.9	30.1	21.4	13.6	10.7	10.7	9.7
40°	762.4	721.6	185.7	40.8	32.1	23.3	13.6	8.8	6.8	6.8	6.8
42.5°	838.3	757.5	132.3	36.0	26.3	16.5	8.8	4.9	3.9	3.9	3.9
45°	925.8	790.6	90.4	31.1	22.4	11.7	4.9	1.9	1.9	1.9	1.9
47.5°	1013.3	812.0	60.3	27.2	16.5	6.8	2.9	1.0	1.0	1.0	1.0
50°	1101.8	828.5	46.7	23.3	11.7	3.9	1.0	0.0	0.0	0.0	0.0
52.5°	1180.6	840.2	37.9	19.4	7.8	2.9	1.0	0.0	0.0	0.0	0.0
55°	1248.6	841.2	33.1	15.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0
57.5°	1317.7	833.4	28.2	11.7	3.9	1.0	0.0	0.0	0.0	0.0	0.0
60°	1359.5	813.0	22.4	8.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	1384.8	778.9	17.5	5.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0
65°	1370.2	736.2	12.6	3.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1302.1	670.0	8.8	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
69°	1221.4	609.7	7.8	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1150.4	563.1	6.8	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	856.7	362.7	5.8	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	481.4	121.6	3.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	180.9	31.1	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	39.9	7.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)