

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: P594537

Luminaire Tested: **ISS-PA1B-727-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594537  
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-727-U-T3-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 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: 3322 lumens  
Efficiency: N/A  
Efficacy: 91.3 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

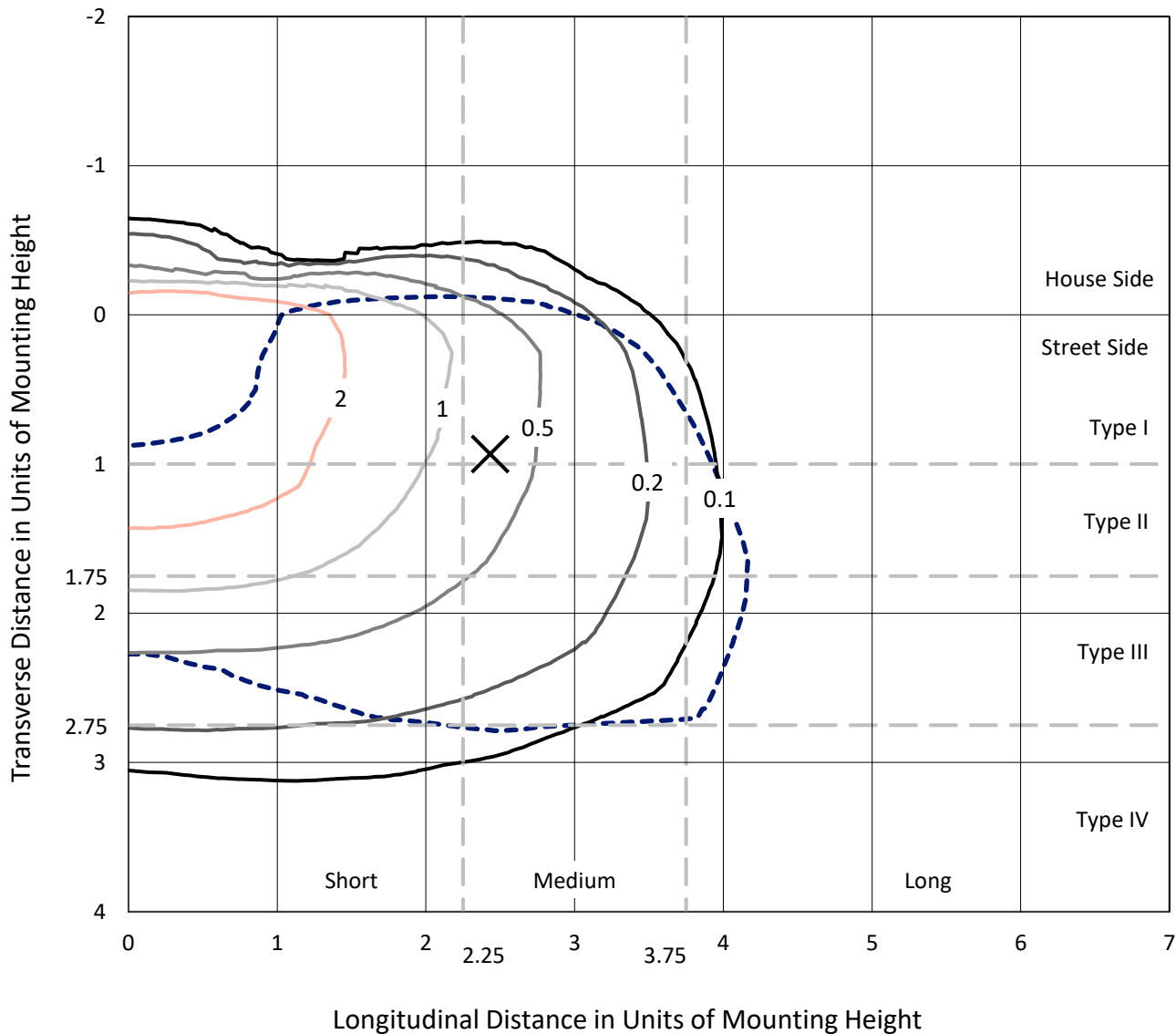
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

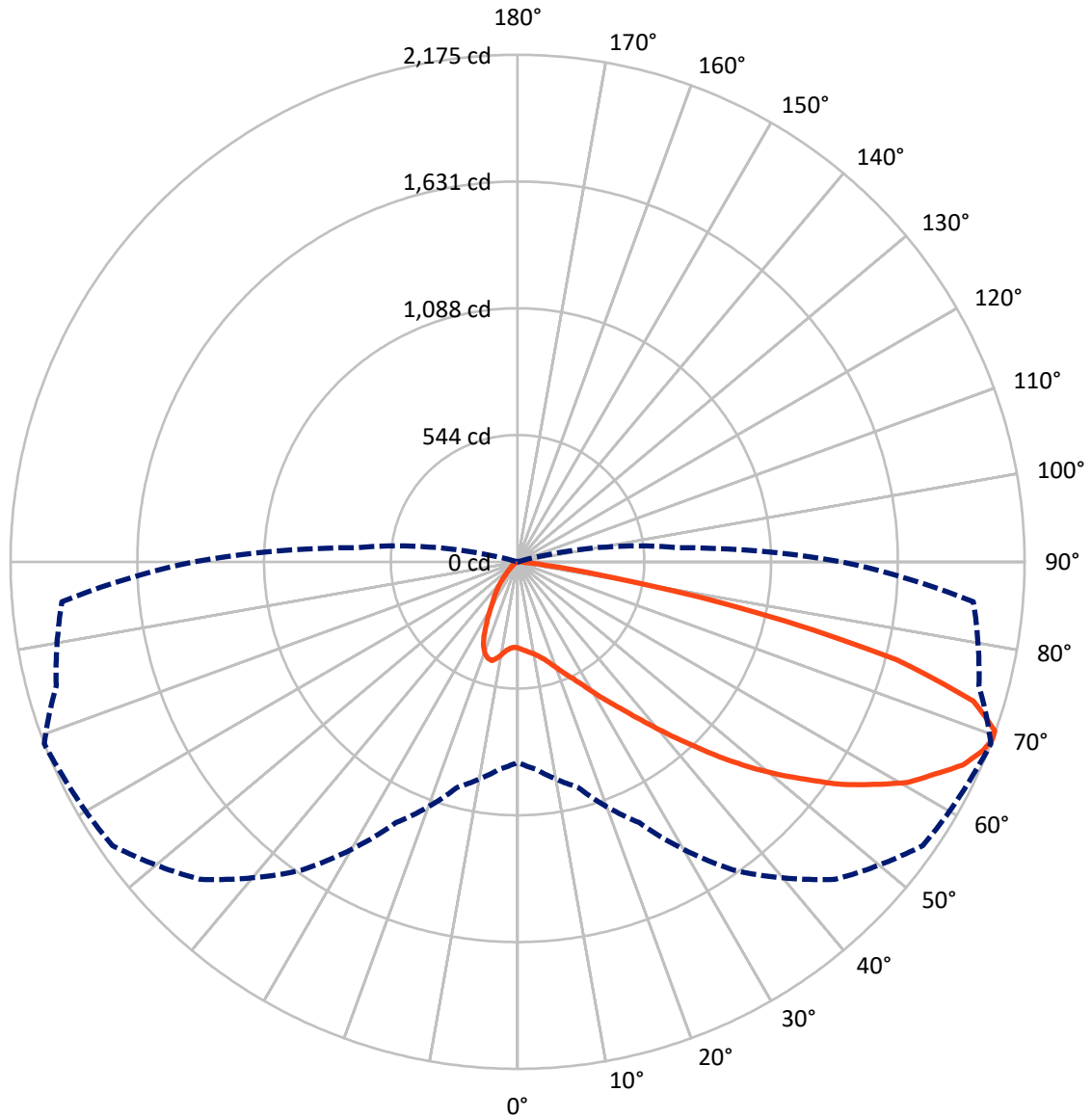
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.2 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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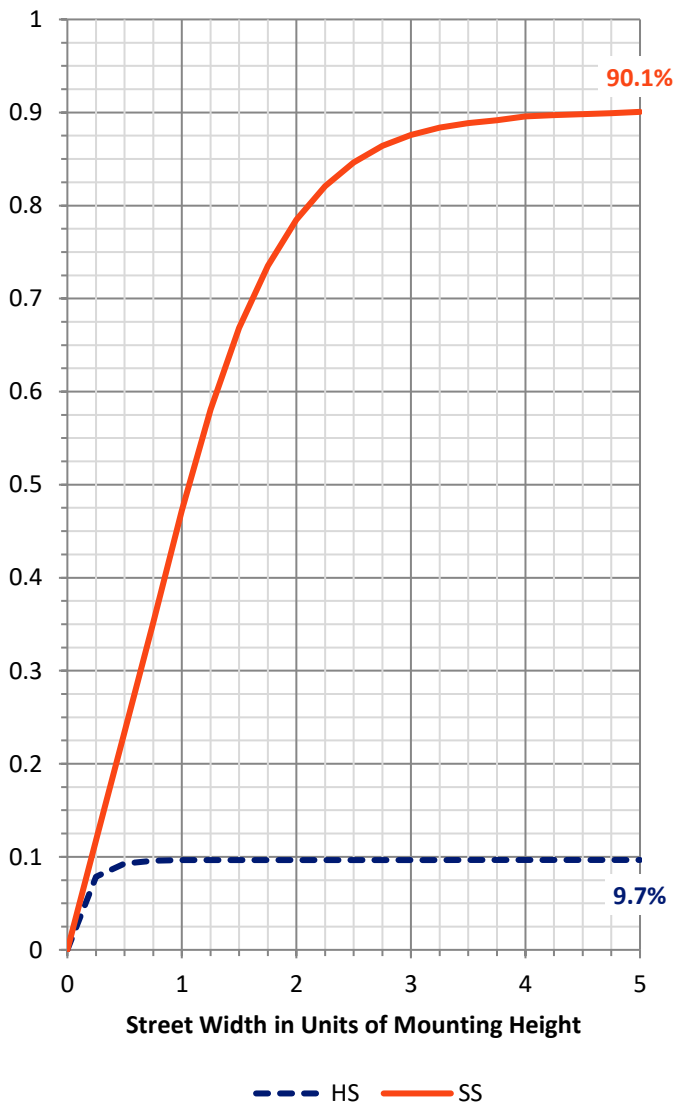
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	323.7	0.0	323.7
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	2998.3	0.0	2998.3
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	3322.0	0.0	3322.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.2	1.1
10°-20°	93.2	2.8
20°-30°	155.2	4.7
30°-40°	279.4	8.4
40°-50°	506.7	15.3
50°-60°	791.8	23.8
60°-70°	916.1	27.6
70°-80°	512.3	15.4
80°-90°	32.0	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°	3322.0	100.0
0°-180°	3322.0	100.0

**Coefficient of Utilization**

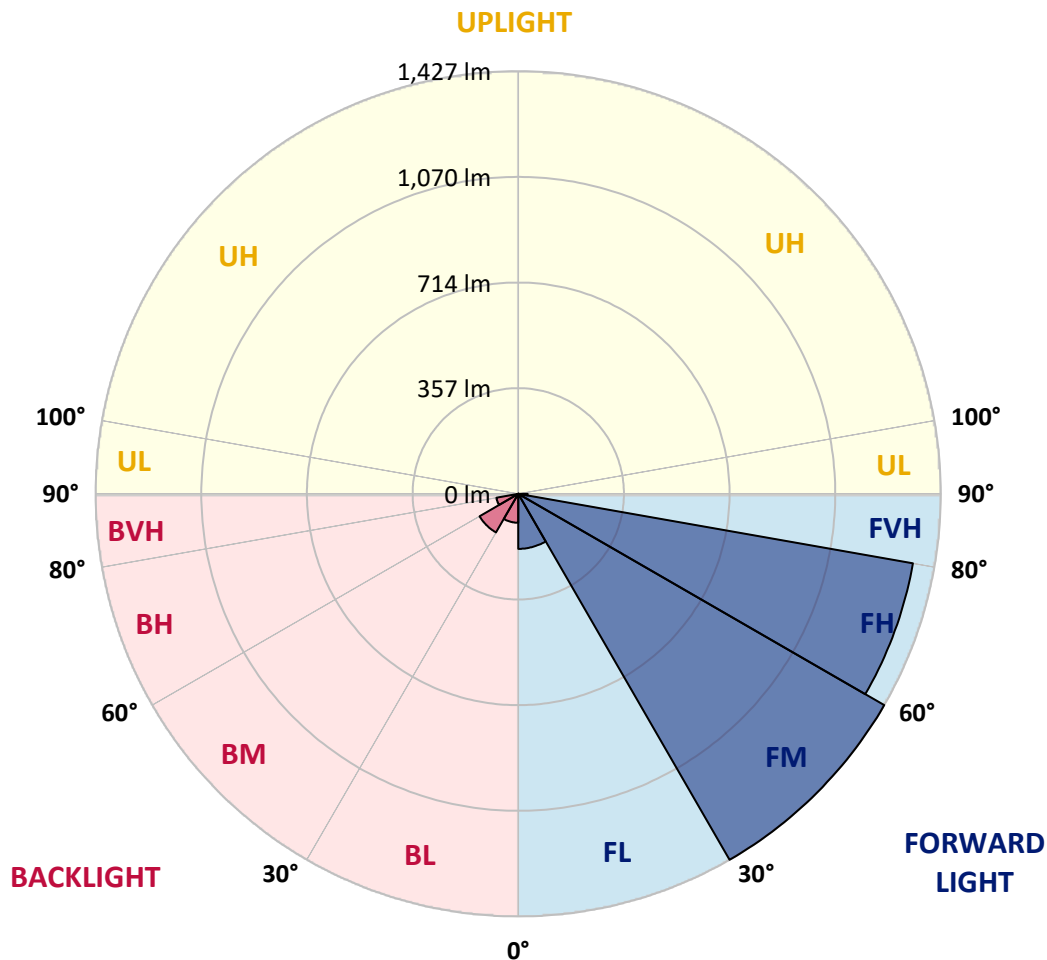


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.8	5.6			
FM (30°-60°)	1427.2	43.0			
FH (60°-80°)	1353.5	40.7			G1/1800
FVH (80°-90°)	31.7	1.0			G1/100
BL (0°-30°)	97.8	2.9	B0/110		
BM (30°-60°)	150.7	4.5	B0/220		
BH (60°-80°)	74.9	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°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	382.8	382.8	382.8	380.6	381.7	380.6	379.5	376.2	377.3	376.2	372.8
5°	369.5	370.6	373.9	376.2	381.7	383.9	385.0	385.0	383.9	381.7	379.5
7.5°	344.1	344.1	347.4	354.0	365.1	377.3	387.2	392.8	393.9	393.9	390.5
10°	337.4	337.4	341.9	346.3	357.3	371.7	387.2	400.5	402.7	404.9	403.8
12.5°	334.1	335.2	339.6	347.4	361.8	375.1	391.6	410.5	417.1	422.6	423.7
15°	338.5	338.5	343.0	350.7	367.3	386.1	407.1	428.2	434.8	442.5	448.1
17.5°	345.2	347.4	349.6	357.3	372.8	396.1	423.7	451.4	459.1	469.1	473.5
20°	356.2	356.2	358.5	365.1	381.7	409.3	448.1	481.3	487.9	494.5	500.1
22.5°	369.5	370.6	370.6	376.2	395.0	424.8	469.1	510.0	521.1	524.4	526.6
25°	409.3	407.1	399.4	396.1	410.5	442.5	494.5	544.3	556.5	559.8	555.4
27.5°	492.3	483.5	462.5	440.3	438.1	470.2	528.8	587.5	600.7	601.9	586.4
30°	596.3	597.4	563.1	515.6	483.5	500.1	566.4	641.7	655.0	649.4	625.1
32.5°	724.7	719.1	693.7	625.1	560.9	546.5	607.4	698.1	713.6	704.7	672.7
35°	834.2	837.5	806.5	745.7	664.9	618.4	657.2	761.2	780.0	764.5	724.7
37.5°	926.0	930.4	911.6	861.8	789.9	716.9	722.4	835.3	860.7	845.2	795.5
40°	1027.8	1031.1	1023.4	969.2	905.0	834.2	809.8	920.5	954.8	933.8	881.8
42.5°	1139.5	1151.7	1138.4	1095.3	1028.9	968.1	931.5	1024.5	1058.8	1045.5	975.8
45°	1292.2	1293.3	1277.8	1234.7	1166.1	1116.3	1072.0	1135.1	1179.4	1162.8	1080.9
47.5°	1405.1	1412.8	1404.0	1374.1	1318.8	1285.6	1224.7	1256.8	1303.3	1282.3	1189.3
50°	1491.4	1512.4	1504.6	1513.5	1485.8	1471.4	1378.5	1382.9	1428.3	1410.6	1300.0
52.5°	1538.9	1565.5	1567.7	1613.1	1636.3	1671.7	1527.9	1521.2	1550.0	1534.5	1412.8
55°	1532.3	1538.9	1594.2	1677.2	1767.9	1848.7	1673.9	1646.2	1686.1	1642.9	1532.3
57.5°	1468.1	1484.7	1582.1	1685.0	1845.4	1962.7	1800.0	1769.0	1802.2	1744.7	1655.1
60°	1376.3	1400.6	1525.6	1672.8	1890.7	2031.2	1922.8	1891.8	1921.7	1852.0	1794.5
62.5°	1293.3	1304.4	1419.4	1621.9	1864.2	2027.9	2018.0	1989.2	2006.9	1933.9	1914.0
65°	1174.9	1179.4	1293.3	1530.1	1805.6	2005.8	2070.0	2081.0	2099.8	2002.5	1999.2
67.5°	992.4	1002.3	1115.2	1369.7	1708.2	1962.7	2110.9	2133.0	2155.2	2039.0	2014.7
69°	860.7	892.8	1001.2	1234.7	1614.2	1926.1	2122.0	2157.4	2175.1	2048.9	1962.7
70°	753.4	781.1	906.1	1130.7	1531.2	1885.2	2129.7	2154.1	2171.8	2027.9	1877.5
72.5°	378.4	413.8	585.3	825.3	1217.0	1698.2	2089.9	2063.3	2044.5	1865.3	1519.0
75°	146.0	151.6	251.1	470.2	761.2	1246.9	1784.5	1734.7	1679.4	1415.0	900.6
77.5°	80.8	79.7	109.5	208.0	324.2	609.6	1207.0	1127.4	1051.0	760.1	365.1
80°	34.3	36.5	47.6	99.6	170.4	211.3	586.4	521.1	414.9	241.2	87.4
82.5°	21.0	22.1	33.2	60.8	118.4	80.8	190.3	162.6	119.5	65.3	21.0
85°	6.6	7.7	23.2	40.9	57.5	33.2	43.1	37.6	33.2	27.7	6.6
87.5°	1.1	1.1	8.9	22.1	15.5	5.5	4.4	7.7	12.2	13.3	2.2
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°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	371.7	369.5	367.3	366.2	366.2	364.0	362.9	361.8	361.8	360.7	360.7
5°	376.2	373.9	371.7	370.6	368.4	367.3	367.3	367.3	366.2	367.3	368.4
7.5°	387.2	383.9	382.8	381.7	381.7	378.4	372.8	358.5	344.1	339.6	335.2
10°	402.7	401.6	401.6	401.6	393.9	365.1	325.3	289.9	271.1	255.6	255.6
12.5°	424.8	424.8	423.7	420.4	380.6	310.9	248.9	195.8	164.8	147.1	149.4
15°	449.2	448.1	450.3	429.3	335.2	240.1	150.5	106.2	89.6	87.4	87.4
17.5°	474.6	476.8	474.6	406.0	275.5	148.3	89.6	80.8	78.6	78.6	78.6
20°	501.2	499.0	495.6	366.2	200.2	92.9	77.4	75.2	73.0	71.9	71.9
22.5°	527.7	525.5	503.4	315.3	125.0	76.3	73.0	68.6	65.3	64.2	64.2
25°	553.2	553.2	489.0	250.0	85.2	71.9	66.4	62.0	58.6	55.3	55.3
27.5°	585.3	587.5	465.8	174.8	71.9	66.4	59.7	53.1	48.7	46.5	46.5
30°	621.8	625.1	428.2	114.0	65.3	58.6	52.0	44.3	37.6	35.4	34.3
32.5°	664.9	668.2	385.0	75.2	58.6	50.9	43.1	33.2	26.6	25.4	24.3
35°	720.2	712.5	333.0	59.7	50.9	43.1	33.2	23.2	18.8	17.7	17.7
37.5°	788.8	772.2	273.3	52.0	43.1	34.3	24.3	15.5	12.2	12.2	11.1
40°	867.4	820.9	211.3	46.5	36.5	26.6	15.5	10.0	7.7	7.7	7.7
42.5°	953.7	861.8	150.5	40.9	29.9	18.8	10.0	5.5	4.4	4.4	4.4
45°	1053.2	899.5	102.9	35.4	25.4	13.3	5.5	2.2	2.2	2.2	2.2
47.5°	1152.8	923.8	68.6	31.0	18.8	7.7	3.3	1.1	1.1	1.1	1.1
50°	1253.5	942.6	53.1	26.6	13.3	4.4	1.1	0.0	0.0	0.0	0.0
52.5°	1343.1	955.9	43.1	22.1	8.9	3.3	1.1	0.0	0.0	0.0	0.0
55°	1420.5	957.0	37.6	17.7	6.6	2.2	0.0	0.0	0.0	0.0	0.0
57.5°	1499.1	948.1	32.1	13.3	4.4	1.1	0.0	0.0	0.0	0.0	0.0
60°	1546.7	924.9	25.4	10.0	3.3	1.1	0.0	0.0	0.0	0.0	0.0
62.5°	1575.4	886.2	19.9	6.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0
65°	1558.8	837.5	14.4	4.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	1481.4	762.3	10.0	3.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
69°	1389.6	693.7	8.9	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	1308.8	640.6	7.7	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	974.7	412.7	6.6	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	547.6	138.3	4.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	205.8	35.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.4	8.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	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)