

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: P594587

Luminaire Tested: **ISS-PA1B-827-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
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-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3256 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

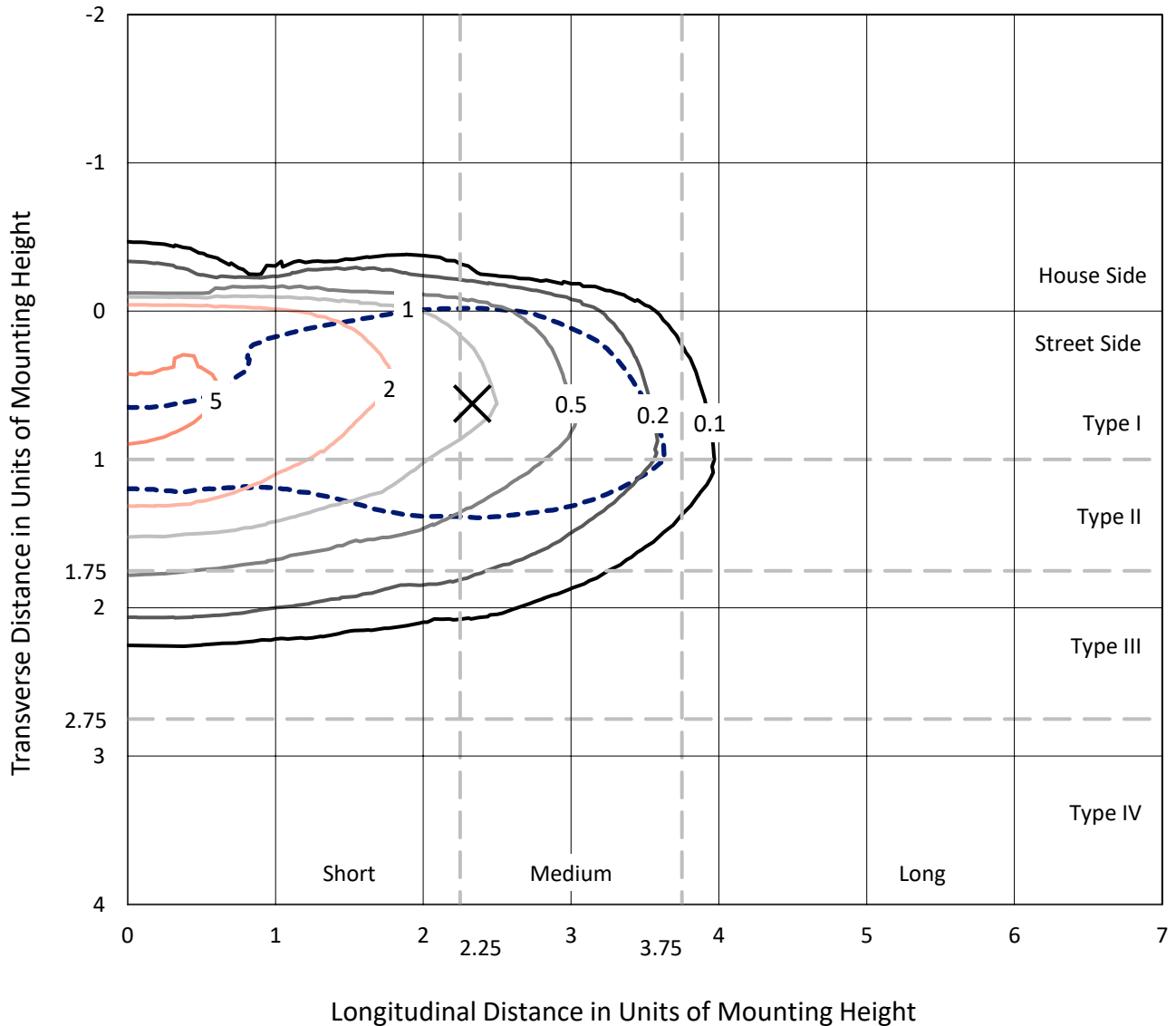
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

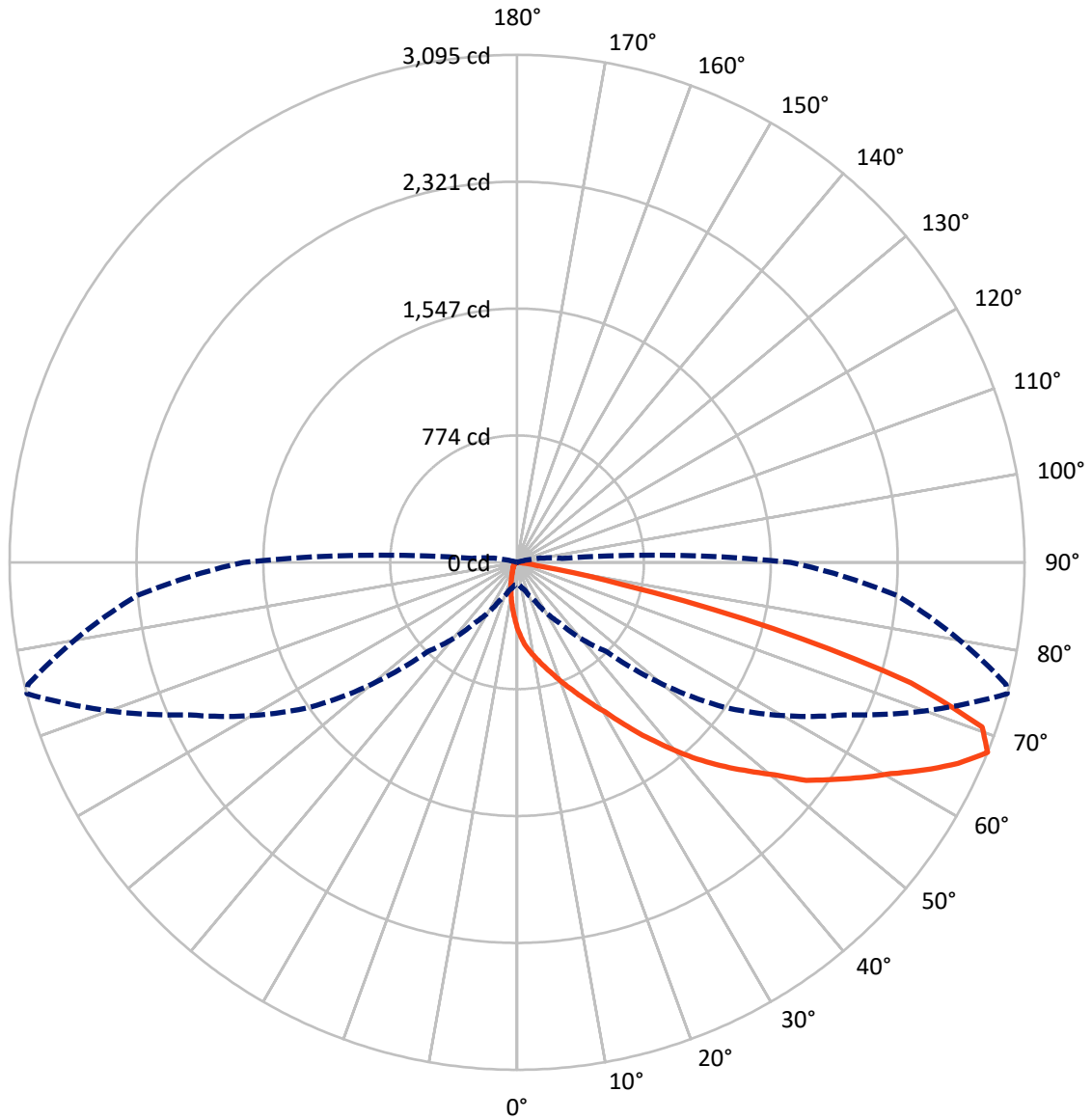
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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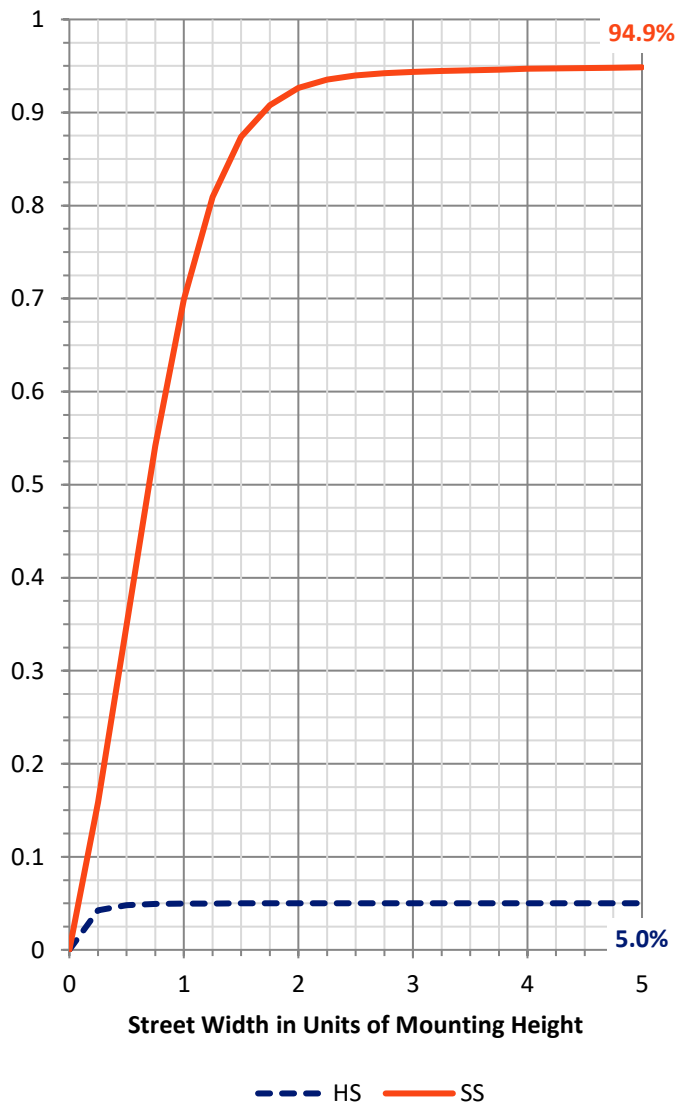
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	164.2	0.0	164.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3091.9	0.0	3091.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	3256.0	0.0	3256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	1.1
10°-20°	117.8	3.6
20°-30°	236.7	7.3
30°-40°	447.8	13.8
40°-50°	669.9	20.6
50°-60°	773.5	23.8
60°-70°	685.6	21.1
70°-80°	277.1	8.5
80°-90°	11.1	0.3
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°	3256.0	100.0
0°-180°	3256.0	100.0

Coefficient of Utilization



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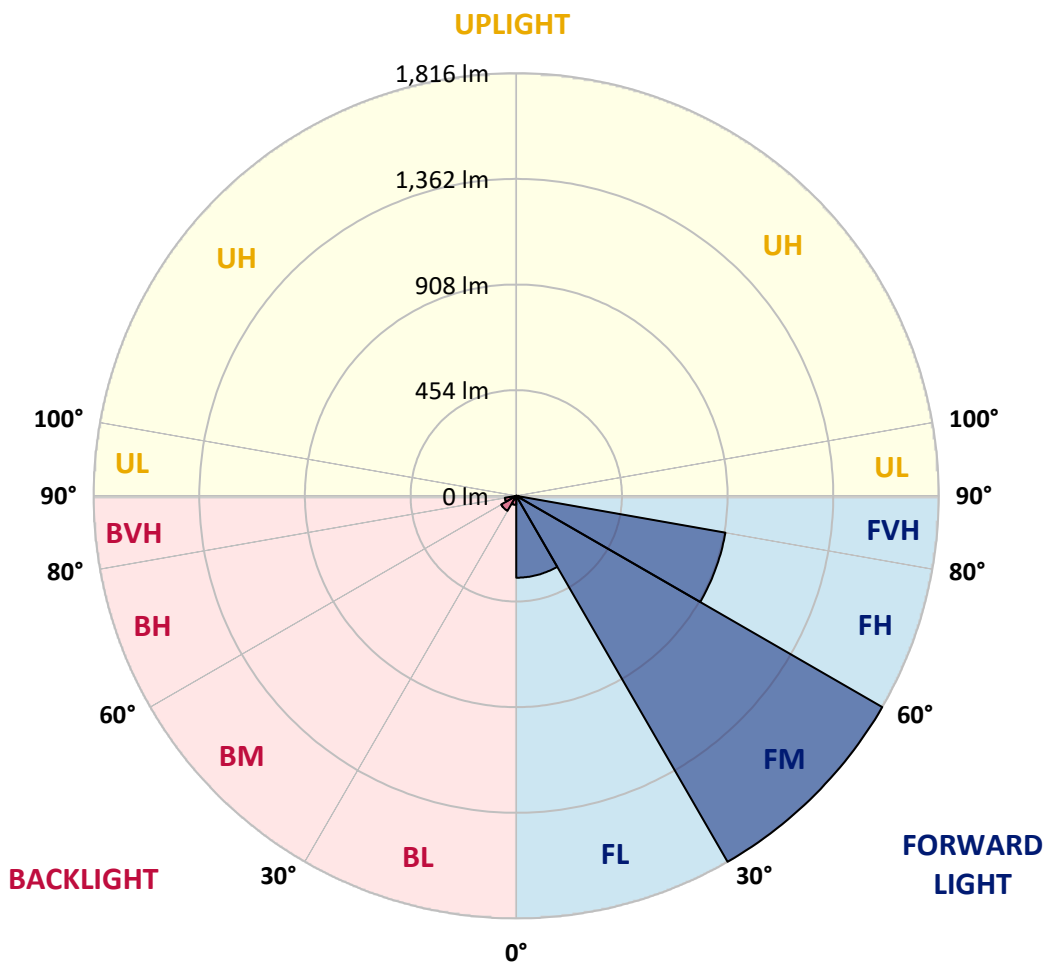
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	352.0	10.8			
FM (30°-60°)	1816.3	55.8			
FH (60°-80°)	912.9	28.0			G1/1800
FVH (80°-90°)	10.6	0.3			G1/100
BL (0°-30°)	39.0	1.2	B0/110		
BM (30°-60°)	74.9	2.3	B0/220		
BH (60°-80°)	49.8	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6
2.5°	563.0	564.9	561.0	552.2	544.4	525.8	511.2	484.8	456.4	456.4	422.2
5°	629.4	627.5	625.5	618.7	612.8	597.2	577.6	549.3	505.3	501.4	444.7
7.5°	661.7	659.7	655.8	652.9	652.9	642.2	623.6	594.3	545.4	541.5	465.2
10°	699.8	695.9	695.9	688.1	686.1	673.4	663.7	638.2	584.5	579.6	488.7
12.5°	744.8	740.9	741.8	735.0	732.1	718.4	704.7	680.3	626.5	621.6	516.1
15°	770.2	768.2	774.1	775.1	777.0	765.3	752.6	727.2	673.4	666.6	548.3
17.5°	784.9	784.9	791.7	804.4	819.1	812.2	802.4	781.9	721.3	717.4	582.5
20°	813.2	810.3	822.0	833.7	852.3	858.2	855.2	839.6	779.0	767.3	619.7
22.5°	860.1	856.2	867.0	881.6	904.1	906.1	908.0	900.2	837.6	825.9	658.8
25°	970.6	960.8	951.0	949.1	957.9	965.7	959.8	965.7	904.1	893.3	700.8
27.5°	1185.6	1169.0	1122.1	1070.3	1034.1	1040.9	1022.4	1033.1	980.3	966.6	739.9
30°	1391.8	1375.2	1337.1	1245.2	1162.1	1125.0	1097.6	1093.7	1058.5	1042.9	784.9
32.5°	1535.5	1524.7	1499.3	1437.8	1334.2	1239.3	1186.6	1168.0	1163.1	1138.7	842.5
35°	1633.2	1623.5	1605.9	1556.0	1479.8	1374.2	1283.3	1242.3	1279.4	1250.1	908.0
37.5°	1691.9	1685.0	1665.5	1631.3	1590.2	1520.8	1403.5	1338.1	1396.7	1369.3	992.1
40°	1734.9	1717.3	1703.6	1677.2	1663.5	1641.1	1540.4	1437.8	1523.8	1495.4	1075.1
42.5°	1738.8	1731.0	1720.2	1704.6	1706.5	1721.2	1686.0	1553.1	1651.8	1625.4	1163.1
45°	1737.8	1730.0	1722.2	1706.5	1716.3	1771.1	1803.3	1674.3	1776.9	1749.5	1256.0
47.5°	1709.5	1703.6	1705.6	1705.6	1718.3	1792.6	1894.2	1797.4	1902.0	1875.6	1368.4
50°	1609.8	1615.6	1654.7	1675.3	1697.7	1793.5	1957.7	1926.5	2036.9	2018.3	1476.9
52.5°	1294.1	1327.3	1485.6	1594.1	1659.6	1774.0	1998.8	2062.3	2207.9	2179.6	1600.0
55°	989.1	991.1	1143.6	1395.7	1584.4	1738.8	2022.2	2154.2	2337.9	2322.3	1708.5
57.5°	802.4	801.5	876.7	1103.5	1388.9	1683.1	2028.1	2221.6	2475.8	2446.4	1833.6
60°	655.8	651.9	696.9	836.7	1134.8	1552.1	2006.6	2276.4	2617.5	2606.7	1964.6
62.5°	474.0	477.9	537.6	646.1	874.8	1310.7	1960.7	2293.0	2788.5	2777.8	2111.2
65°	272.7	284.4	349.9	465.2	670.5	1025.3	1829.7	2280.3	2955.7	2954.7	2247.0
67.5°	136.8	137.8	173.0	260.0	450.6	767.3	1540.4	2200.1	3094.5	3072.9	2325.2
70°	88.0	89.9	101.6	133.9	249.2	531.7	1176.8	1973.4	3007.5	2999.6	2210.9
72.5°	67.4	69.4	79.2	88.0	130.0	302.0	796.6	1533.5	2510.9	2489.4	1724.1
75°	52.8	53.8	63.5	71.4	87.0	141.7	399.8	955.9	1617.6	1561.9	981.3
77.5°	42.0	43.0	47.9	56.7	66.5	79.2	118.3	430.1	657.8	587.4	318.6
80°	27.4	28.3	36.2	44.0	56.7	51.8	45.9	124.1	140.7	127.1	56.7
82.5°	15.6	16.6	24.4	35.2	43.0	29.3	26.4	36.2	33.2	32.3	17.6
85°	4.9	4.9	16.6	24.4	19.5	8.8	16.6	12.7	10.8	9.8	5.9
87.5°	1.0	1.0	7.8	8.8	2.9	1.0	2.0	2.9	3.9	4.9	2.9
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°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6
2.5°	405.6	386.1	349.9	318.6	288.3	261.9	243.4	226.8	215.0	212.1	207.2
5°	408.6	370.4	301.0	242.4	191.6	150.5	127.1	111.4	103.6	98.7	98.7
7.5°	411.5	354.8	255.1	176.9	121.2	91.9	77.2	70.4	67.4	66.5	65.5
10°	417.4	343.1	216.0	127.1	83.1	69.4	63.5	60.6	58.6	57.7	57.7
12.5°	427.1	333.3	179.8	93.8	68.4	61.6	57.7	53.8	51.8	50.8	50.8
15°	439.8	326.5	148.6	75.3	62.6	55.7	50.8	46.9	44.0	43.0	43.0
17.5°	457.4	321.6	122.2	66.5	57.7	49.8	44.0	40.1	37.1	36.2	36.2
20°	475.0	321.6	100.7	61.6	52.8	44.0	38.1	33.2	30.3	29.3	29.3
22.5°	498.5	320.6	84.1	56.7	46.9	38.1	32.3	26.4	24.4	23.5	23.5
25°	518.0	320.6	72.3	51.8	41.1	33.2	26.4	21.5	19.5	18.6	18.6
27.5°	541.5	317.7	61.6	45.9	35.2	27.4	21.5	17.6	15.6	14.7	14.7
30°	562.0	313.7	54.7	41.1	30.3	22.5	17.6	13.7	12.7	12.7	12.7
32.5°	596.2	310.8	48.9	35.2	25.4	18.6	13.7	10.8	9.8	9.8	9.8
35°	637.3	310.8	45.0	30.3	21.5	15.6	10.8	8.8	7.8	7.8	7.8
37.5°	691.0	313.7	40.1	26.4	17.6	12.7	8.8	6.8	5.9	5.9	5.9
40°	747.7	320.6	36.2	23.5	15.6	9.8	6.8	4.9	3.9	4.9	4.9
42.5°	815.2	327.4	32.3	20.5	12.7	7.8	4.9	2.9	2.0	2.9	2.9
45°	881.6	334.3	30.3	17.6	10.8	5.9	2.9	2.0	1.0	2.0	2.0
47.5°	963.7	350.9	28.3	15.6	8.8	4.9	2.0	1.0	0.0	1.0	1.0
50°	1058.5	369.5	25.4	12.7	6.8	3.9	2.0	0.0	0.0	0.0	0.0
52.5°	1149.4	385.1	22.5	10.8	5.9	2.9	1.0	0.0	0.0	0.0	0.0
55°	1240.3	394.9	19.5	8.8	4.9	2.9	1.0	0.0	0.0	0.0	0.0
57.5°	1338.1	400.7	17.6	7.8	3.9	2.0	1.0	0.0	0.0	0.0	0.0
60°	1446.6	400.7	14.7	6.8	2.9	2.0	1.0	0.0	0.0	0.0	0.0
62.5°	1566.8	389.0	13.7	5.9	2.9	2.0	1.0	0.0	0.0	0.0	0.0
65°	1664.5	347.0	11.7	4.9	2.9	2.0	1.0	0.0	0.0	0.0	0.0
67.5°	1668.4	274.6	10.8	3.9	2.9	2.0	1.0	0.0	0.0	0.0	0.0
70°	1487.6	187.7	8.8	2.9	2.0	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1113.3	100.7	7.8	2.9	2.0	1.0	1.0	0.0	0.0	0.0	0.0
75°	600.1	39.1	4.9	2.9	2.0	1.0	1.0	0.0	0.0	0.0	0.0
77.5°	175.0	19.5	2.9	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
80°	32.3	9.8	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.8	3.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	1.0	1.0	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)