

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: P594683

Luminaire Tested: **ISS-PA1C-830-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1C-830-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4104 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G2

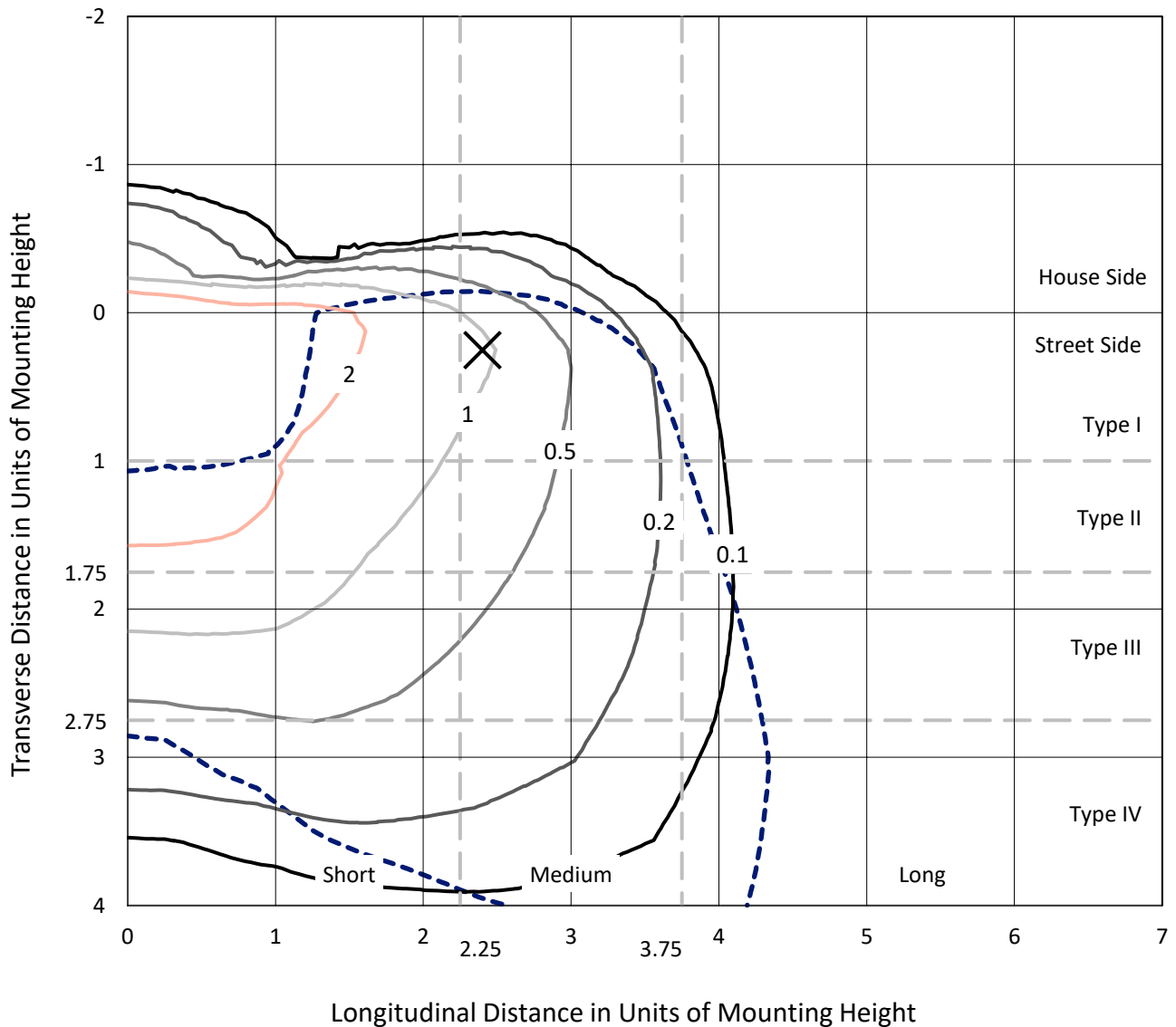
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

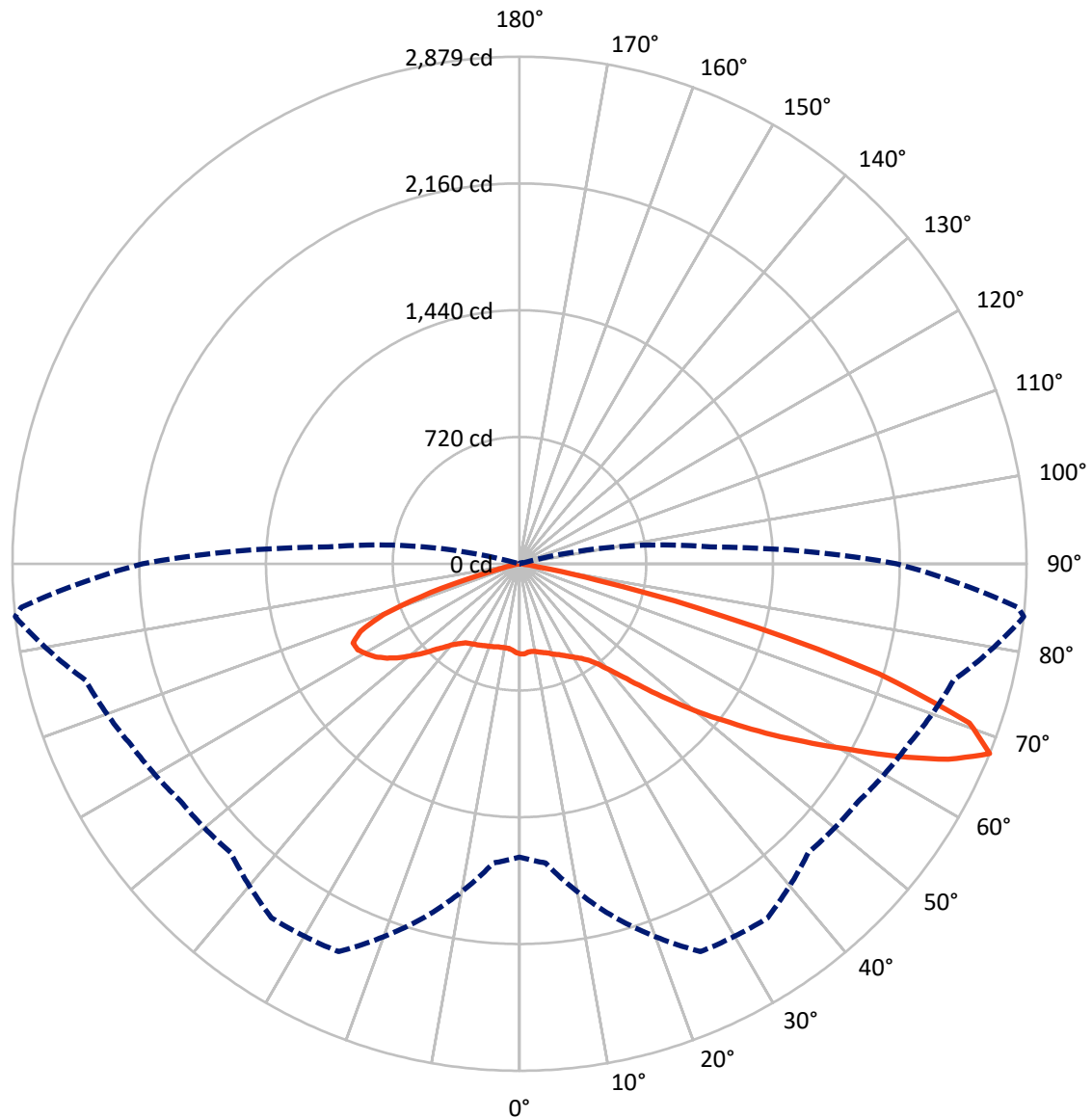
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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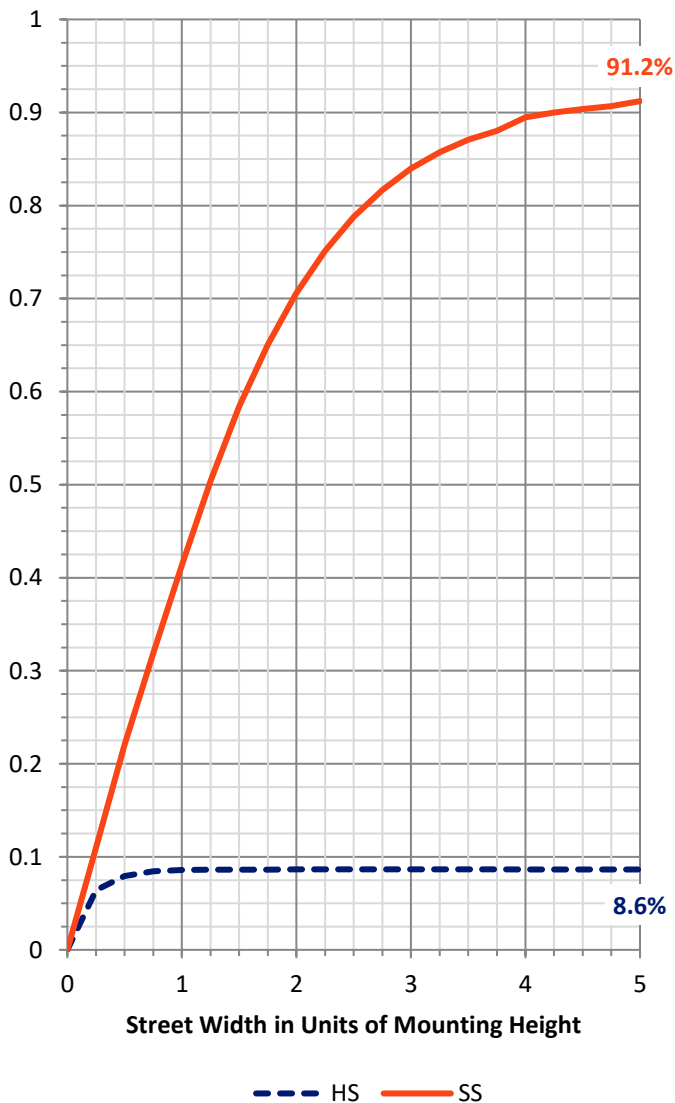
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	357.3	0.0	357.3
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	3746.7	0.0	3746.7
	% Fixture	91.3	0.0	91.3
Total	Lumens	4104.0	0.0	4104.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.1
10°-20°	119.9	2.9
20°-30°	192.1	4.7
30°-40°	276.4	6.7
40°-50°	474.4	11.6
50°-60°	828.8	20.2
60°-70°	1186.9	28.9
70°-80°	892.1	21.7
80°-90°	87.6	2.1
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°	4104.0	100.0
0°-180°	4104.0	100.0

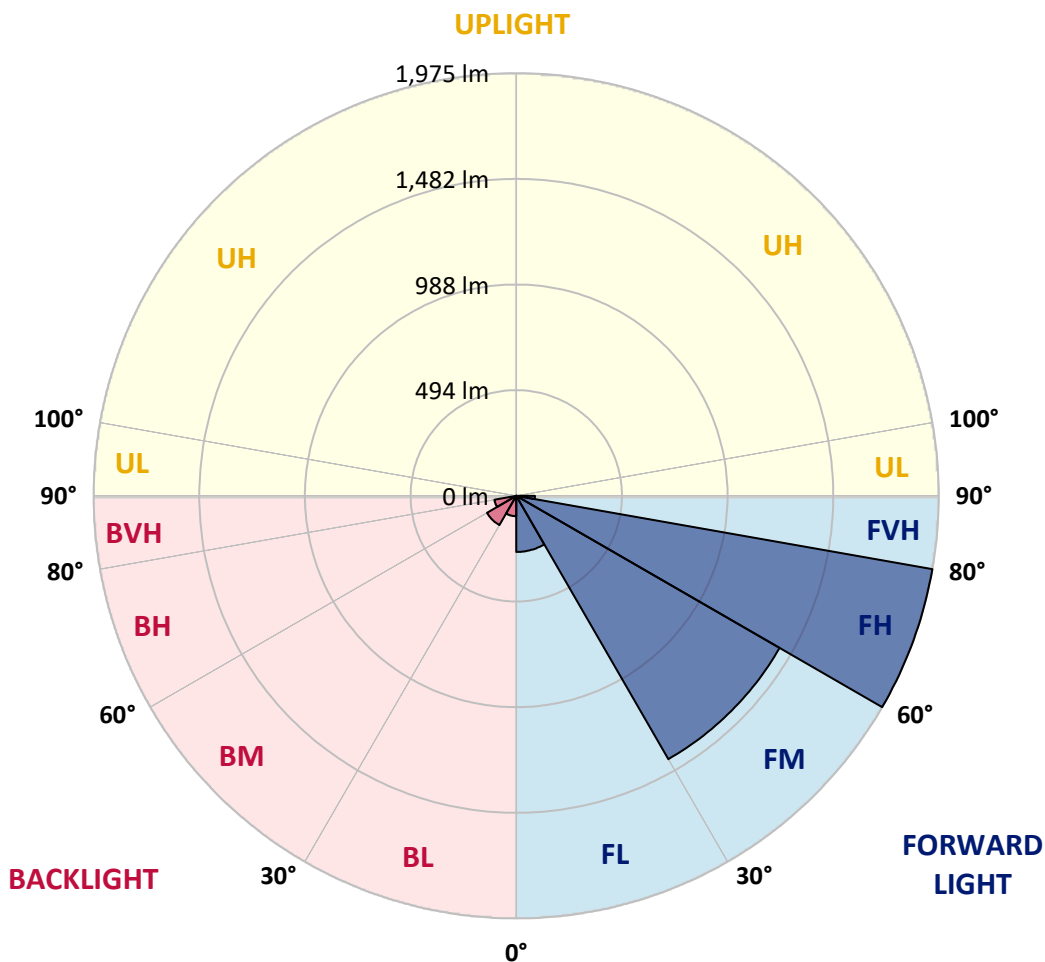


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.4	6.4			
FM (30°-60°)	1421.6	34.6			
FH (60°-80°)	1975.4	48.1			G2/5000
FVH (80°-90°)	87.3	2.1			G1/100
BL (0°-30°)	95.4	2.3	B0/110		
BM (30°-60°)	158.0	3.9	B0/220		
BH (60°-80°)	103.6	2.5	B0/110		G0/110
BVH (80°-90°)	0.3	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3
2.5°	540.4	543.2	544.6	537.6	537.6	532.1	523.8	521.0	516.9	512.7	511.3
5°	568.1	572.3	570.9	562.6	558.4	547.3	536.3	525.2	514.1	504.4	504.4
7.5°	600.0	601.4	597.2	583.4	575.0	559.8	543.2	530.7	516.9	503.0	500.2
10°	627.7	626.3	620.8	606.9	591.7	572.3	554.3	540.4	523.8	507.2	505.8
12.5°	647.1	648.5	641.6	622.2	606.9	584.7	566.7	552.9	533.5	515.5	511.3
15°	663.7	667.9	659.6	640.2	618.0	598.6	584.7	566.7	544.6	523.8	521.0
17.5°	679.0	680.4	673.4	651.3	630.5	613.8	598.6	582.0	559.8	533.5	530.7
20°	687.3	691.4	687.3	659.6	640.2	627.7	615.2	598.6	573.7	548.7	546.0
22.5°	692.8	697.0	695.6	665.1	648.5	638.8	627.7	612.5	588.9	559.8	557.0
25°	695.6	698.4	701.1	670.7	656.8	652.6	642.9	629.1	606.9	576.4	573.7
27.5°	699.8	702.5	705.3	677.6	672.0	667.9	665.1	654.0	627.7	595.8	591.7
30°	706.7	710.8	713.6	690.1	690.1	694.2	694.2	679.0	649.9	616.6	613.8
32.5°	715.0	716.4	721.9	702.5	709.5	719.2	716.4	701.1	670.7	640.2	636.0
35°	737.2	737.2	746.9	721.9	730.2	738.6	741.3	730.2	702.5	672.0	670.7
37.5°	791.2	791.2	799.5	759.3	758.0	766.3	776.0	776.0	748.3	720.5	717.8
40°	913.2	913.2	913.2	820.3	805.1	814.8	830.0	838.3	814.8	795.4	795.4
42.5°	1116.8	1118.2	1097.4	932.5	867.4	884.1	900.7	918.7	906.2	892.4	889.6
45°	1327.5	1320.5	1317.8	1097.4	978.3	970.0	990.7	1021.2	1025.4	1017.1	1022.6
47.5°	1471.6	1478.5	1482.7	1302.5	1133.5	1076.7	1096.1	1139.0	1164.0	1162.6	1170.9
50°	1611.5	1615.7	1619.8	1528.4	1338.5	1211.1	1223.5	1281.7	1316.4	1327.5	1333.0
52.5°	1733.5	1722.4	1740.4	1727.9	1556.1	1364.9	1364.9	1431.4	1493.7	1497.9	1496.5
55°	1769.5	1776.4	1830.5	1867.9	1779.2	1553.3	1525.6	1596.3	1662.8	1697.4	1697.4
57.5°	1849.9	1856.8	1921.9	2006.4	1941.3	1739.0	1697.4	1766.7	1838.8	1905.3	1915.0
60°	1955.2	1956.6	2025.8	2154.7	2064.6	1906.7	1872.0	1951.0	2023.1	2136.7	2168.6
62.5°	2012.0	2017.5	2113.1	2282.2	2219.8	2053.5	2045.2	2117.3	2210.1	2409.7	2438.8
65°	1924.7	1960.7	2168.6	2358.4	2345.9	2190.7	2219.8	2278.0	2384.7	2677.1	2704.8
67.5°	1665.6	1705.7	2077.1	2430.4	2455.4	2319.6	2350.1	2434.6	2552.4	2879.4	2840.6
70°	1533.9	1567.2	1855.4	2470.6	2546.8	2463.7	2477.6	2556.5	2591.2	2710.4	2668.8
72.5°	1162.6	1197.2	1570.0	2333.5	2625.8	2614.7	2580.1	2515.0	2309.9	2132.5	2031.4
75°	514.1	554.3	1044.8	1823.5	2430.4	2700.7	2517.7	2153.3	1658.6	1211.1	1122.4
77.5°	227.2	250.8	404.6	1012.9	1826.3	2337.6	1991.2	1435.5	832.8	450.3	418.5
80°	73.4	76.2	127.5	354.7	933.9	1547.8	1219.4	690.1	256.3	105.3	98.4
82.5°	29.1	31.9	61.0	149.7	386.6	615.2	598.6	249.4	74.8	27.7	27.7
85°	8.3	9.7	30.5	79.0	137.2	173.2	212.0	83.1	40.2	8.3	8.3
87.5°	2.8	2.8	11.1	24.9	26.3	18.0	40.2	31.9	24.9	2.8	2.8
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°	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3
2.5°	508.5	505.8	498.8	493.3	490.5	486.4	480.8	478.1	478.1	476.7	472.5
5°	498.8	494.7	482.2	473.9	467.0	451.7	440.6	426.8	412.9	408.8	412.9
7.5°	494.7	486.4	469.7	453.1	424.0	383.8	357.5	328.4	318.7	306.2	307.6
10°	496.1	486.4	462.8	425.4	368.6	309.0	267.4	228.6	209.2	199.5	200.9
12.5°	500.2	489.1	455.9	388.0	306.2	234.2	170.4	140.0	134.4	134.4	134.4
15°	508.5	491.9	444.8	343.6	239.7	155.2	120.6	117.8	121.9	126.1	127.5
17.5°	516.9	500.2	428.2	297.9	174.6	116.4	112.2	112.2	116.4	120.6	121.9
20°	526.6	508.5	404.6	249.4	124.7	109.5	108.1	106.7	109.5	113.6	115.0
22.5°	541.8	516.9	376.9	192.6	108.1	105.3	102.5	101.2	102.5	106.7	108.1
25°	555.7	527.9	347.8	142.7	101.2	98.4	97.0	95.6	95.6	98.4	99.8
27.5°	572.3	540.4	315.9	106.7	92.8	91.5	90.1	88.7	87.3	90.1	91.5
30°	593.1	551.5	281.3	90.1	84.5	83.1	81.8	80.4	79.0	80.4	81.8
32.5°	619.4	566.7	241.1	81.8	77.6	73.4	72.1	72.1	70.7	70.7	72.1
35°	654.0	583.4	198.1	76.2	70.7	66.5	62.4	61.0	61.0	61.0	62.4
37.5°	705.3	613.8	156.6	70.7	65.1	58.2	54.0	49.9	49.9	49.9	49.9
40°	776.0	647.1	121.9	66.5	61.0	51.3	45.7	40.2	37.4	36.0	37.4
42.5°	885.4	697.0	94.2	61.0	58.2	45.7	37.4	30.5	24.9	23.6	24.9
45°	1006.0	751.0	74.8	56.8	52.7	38.8	29.1	20.8	15.2	13.9	15.2
47.5°	1158.4	818.9	63.7	51.3	45.7	31.9	20.8	11.1	6.9	8.3	8.3
50°	1305.3	885.4	58.2	47.1	40.2	26.3	12.5	5.5	2.8	4.2	4.2
52.5°	1467.4	956.1	54.0	41.6	34.6	19.4	6.9	1.4	0.0	1.4	1.4
55°	1630.9	1019.8	49.9	37.4	27.7	13.9	2.8	0.0	0.0	0.0	1.4
57.5°	1808.3	1073.9	45.7	31.9	20.8	8.3	1.4	0.0	0.0	0.0	0.0
60°	1956.6	1115.5	41.6	27.7	13.9	4.2	0.0	0.0	0.0	0.0	0.0
62.5°	2092.3	1152.9	31.9	20.8	8.3	2.8	0.0	0.0	0.0	0.0	0.0
65°	2182.4	1161.2	22.2	13.9	5.5	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	2142.2	1089.1	13.9	9.7	2.8	1.4	0.0	0.0	0.0	0.0	0.0
70°	1883.1	914.5	9.7	5.5	1.4	1.4	0.0	0.0	0.0	0.0	0.0
72.5°	1317.8	590.3	8.3	4.2	1.4	1.4	0.0	0.0	0.0	0.0	0.0
75°	695.6	213.4	5.5	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	246.6	47.1	2.8	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0
80°	54.0	9.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	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)