

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: P594762

Luminaire Tested: **ISS-PA1D-830-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594762
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-PA1D-830-U-T3-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 5134 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

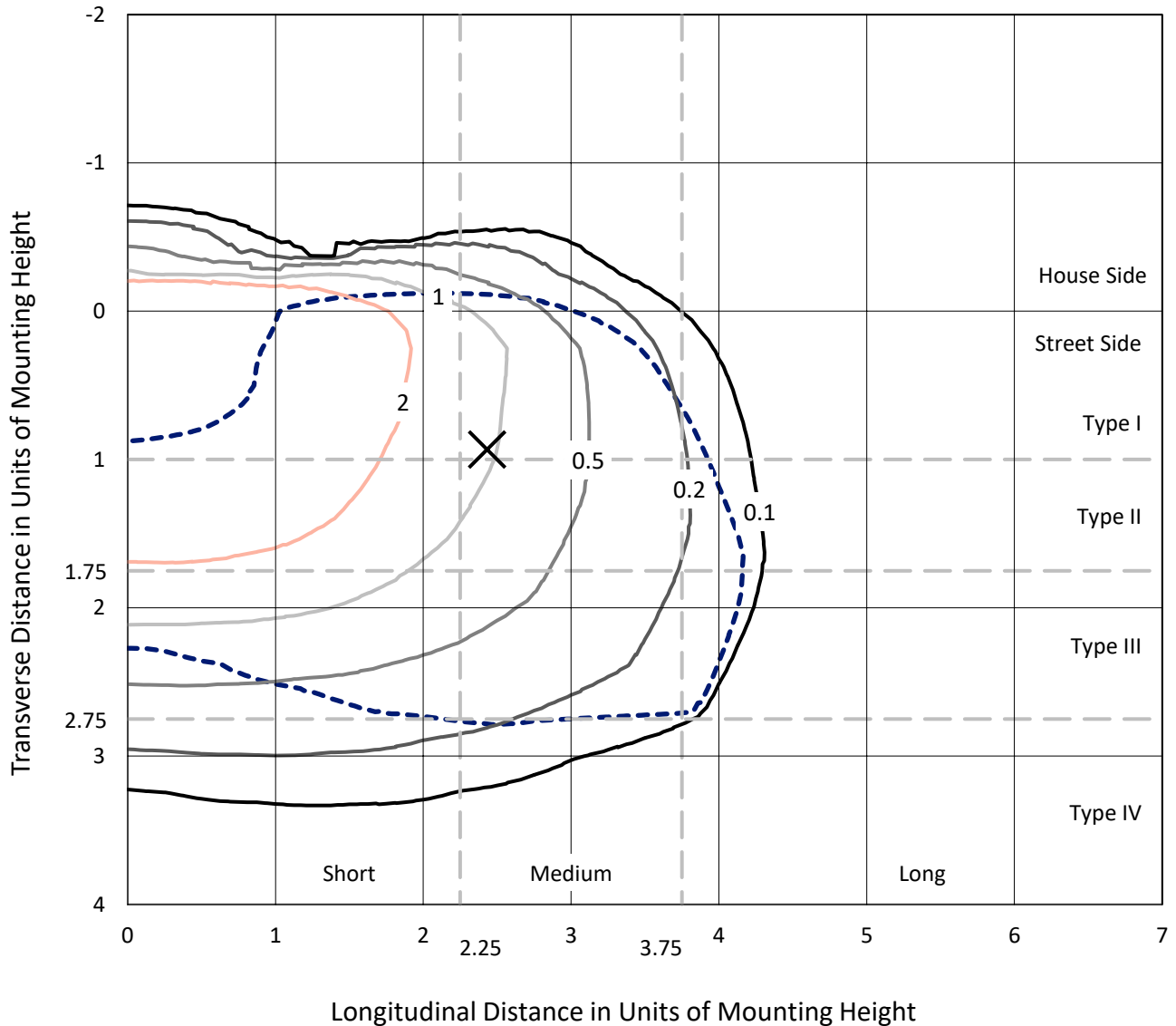
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

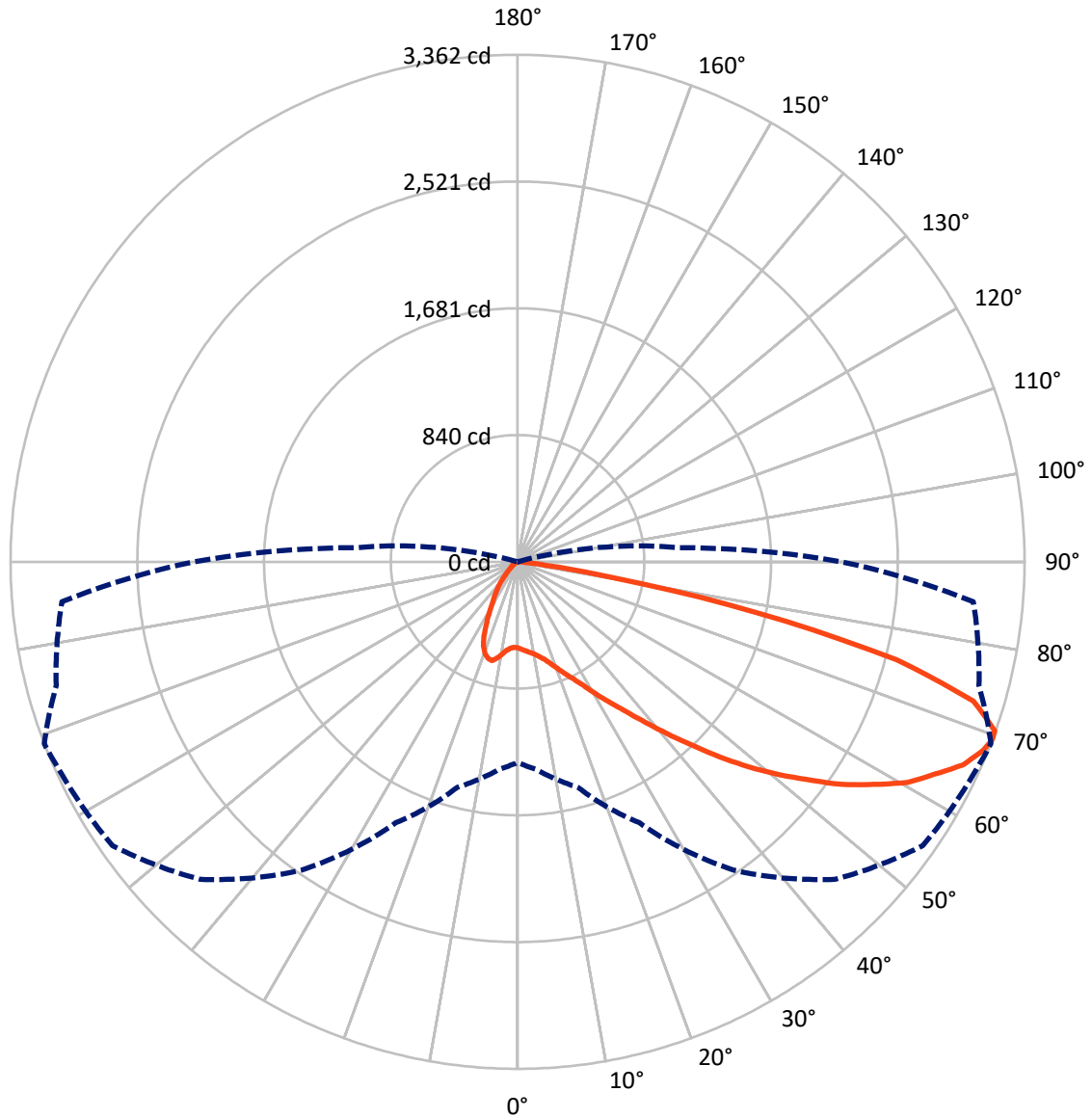
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5 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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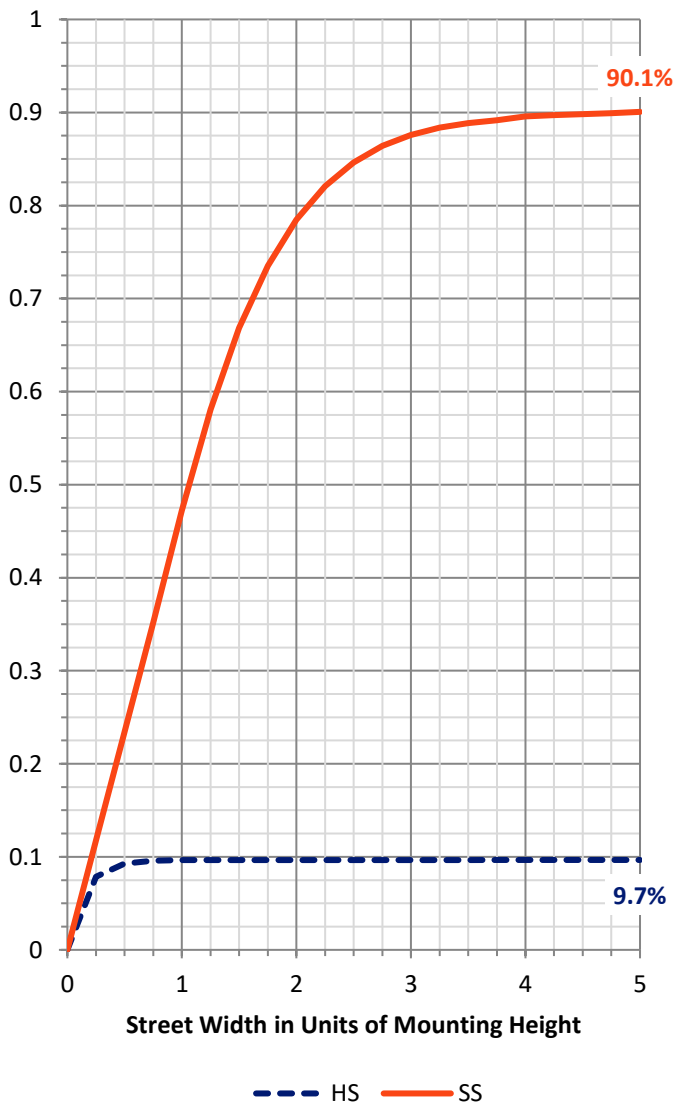
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.3	0.0	500.3
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4633.7	0.0	4633.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	5134.0	0.0	5134.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.1
10°-20°	144.1	2.8
20°-30°	239.9	4.7
30°-40°	431.9	8.4
40°-50°	783.1	15.3
50°-60°	1223.7	23.8
60°-70°	1415.8	27.6
70°-80°	791.8	15.4
80°-90°	49.4	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°	5134.0	100.0
0°-180°	5134.0	100.0

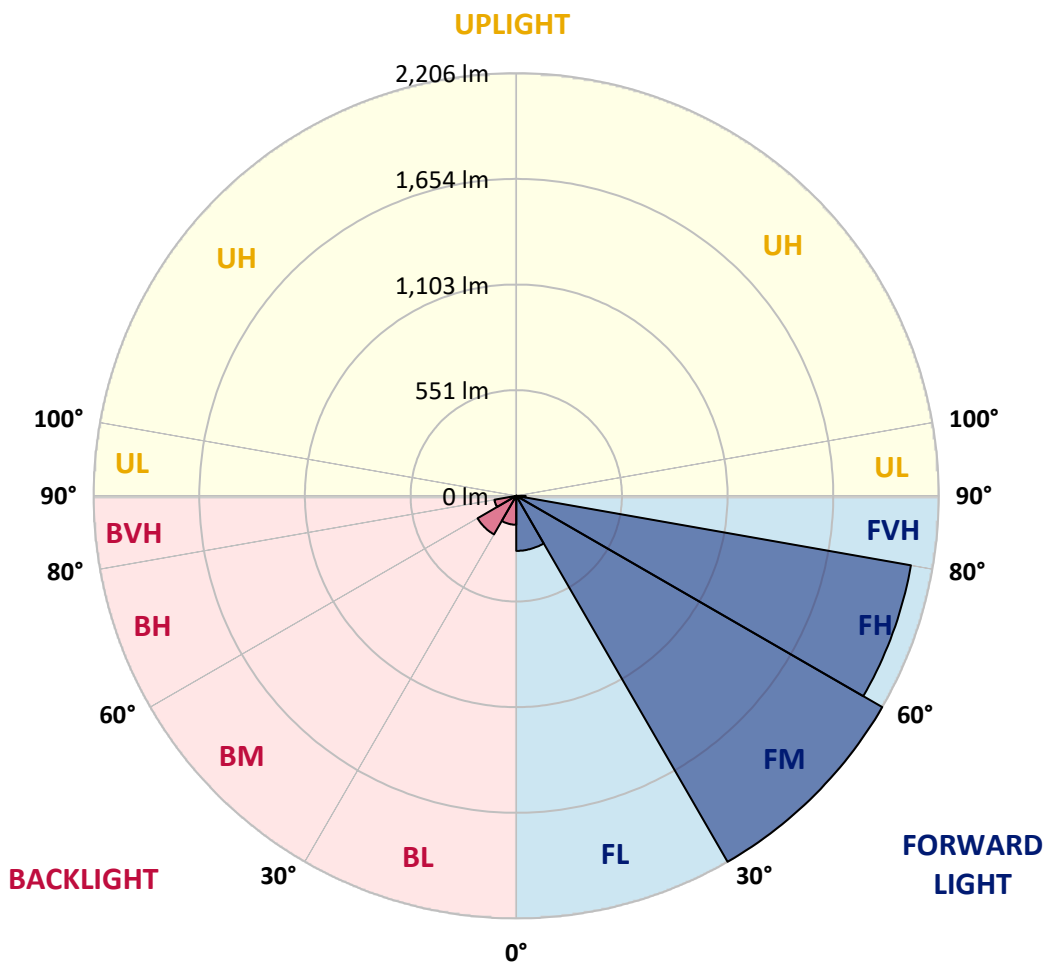


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.2	5.6			
FM (30°-60°)	2205.7	43.0			
FH (60°-80°)	2091.7	40.7			G2/5000
FVH (80°-90°)	49.1	1.0			G1/100
BL (0°-30°)	151.2	2.9	B1/500		
BM (30°-60°)	232.9	4.5	B1/1000		
BH (60°-80°)	115.8	2.3	B1/500		G1/500
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
2.5°	591.6	591.6	591.6	588.2	589.9	588.2	586.5	581.3	583.0	581.3	576.2
5°	571.1	572.8	577.9	581.3	589.9	593.3	595.0	595.0	593.3	589.9	586.5
7.5°	531.7	531.7	536.9	547.1	564.2	583.0	598.4	607.0	608.7	608.7	603.6
10°	521.5	521.5	528.3	535.2	552.3	574.5	598.4	618.9	622.4	625.8	624.1
12.5°	516.4	518.1	524.9	536.9	559.1	579.6	605.3	634.3	644.6	653.1	654.9
15°	523.2	523.2	530.0	542.0	567.7	596.7	629.2	661.7	672.0	683.9	692.5
17.5°	533.5	536.9	540.3	552.3	576.2	612.1	654.9	697.6	709.6	725.0	731.8
20°	550.6	550.6	554.0	564.2	589.9	632.6	692.5	743.8	754.0	764.3	772.8
22.5°	571.1	572.8	572.8	581.3	610.4	656.6	725.0	788.2	805.3	810.4	813.9
25°	632.6	629.2	617.2	612.1	634.3	683.9	764.3	841.2	860.0	865.2	858.3
27.5°	760.9	747.2	714.7	680.5	677.1	726.7	817.3	907.9	928.4	930.1	906.2
30°	921.6	923.3	870.3	796.8	747.2	772.8	875.4	991.7	1012.2	1003.7	966.0
32.5°	1119.9	1111.4	1072.0	966.0	866.9	844.6	938.7	1078.9	1102.8	1089.1	1039.6
35°	1289.2	1294.3	1246.4	1152.4	1027.6	955.8	1015.6	1176.3	1205.4	1181.5	1119.9
37.5°	1431.1	1437.9	1408.9	1331.9	1220.8	1108.0	1116.5	1290.9	1330.2	1306.3	1229.3
40°	1588.4	1593.5	1581.6	1497.8	1398.6	1289.2	1251.6	1422.6	1475.6	1443.1	1362.7
42.5°	1761.1	1779.9	1759.4	1692.7	1590.1	1496.1	1439.7	1583.3	1636.3	1615.8	1508.0
45°	1997.1	1998.8	1974.8	1908.1	1802.1	1725.2	1656.8	1754.3	1822.7	1797.0	1670.5
47.5°	2171.5	2183.4	2169.7	2123.6	2038.1	1986.8	1892.8	1942.3	2014.2	1981.7	1838.0
50°	2304.8	2337.3	2325.3	2339.0	2296.3	2274.0	2130.4	2137.3	2207.4	2180.0	2009.0
52.5°	2378.3	2419.4	2422.8	2492.9	2528.8	2583.5	2361.2	2351.0	2395.4	2371.5	2183.4
55°	2368.1	2378.3	2463.8	2592.1	2732.3	2857.1	2586.9	2544.2	2605.7	2539.1	2368.1
57.5°	2268.9	2294.6	2445.0	2604.0	2852.0	3033.2	2781.9	2734.0	2785.3	2696.4	2557.9
60°	2127.0	2164.6	2357.8	2585.2	2922.1	3139.2	2971.6	2923.8	2969.9	2862.2	2773.3
62.5°	1998.8	2015.9	2193.7	2506.6	2881.0	3134.1	3118.7	3074.2	3101.6	2988.7	2958.0
65°	1815.8	1822.7	1998.8	2364.7	2790.4	3099.9	3199.0	3216.1	3245.2	3094.7	3089.6
67.5°	1533.7	1549.1	1723.5	2116.7	2639.9	3033.2	3262.3	3296.5	3330.7	3151.2	3113.6
69°	1330.2	1379.8	1547.4	1908.1	2494.6	2976.8	3279.4	3334.1	3361.5	3166.6	3033.2
70°	1164.4	1207.1	1400.3	1747.4	2366.4	2913.5	3291.4	3329.0	3356.3	3134.1	2901.5
72.5°	584.8	639.5	904.5	1275.5	1880.8	2624.6	3229.8	3188.8	3159.7	2882.7	2347.6
75°	225.7	234.2	388.1	726.7	1176.3	1927.0	2757.9	2681.0	2595.5	2186.8	1391.8
77.5°	124.8	123.1	169.3	321.4	501.0	942.1	1865.4	1742.3	1624.3	1174.6	564.2
80°	53.0	56.4	73.5	153.9	263.3	326.6	906.2	805.3	641.2	372.7	135.1
82.5°	32.5	34.2	51.3	94.0	182.9	124.8	294.1	251.3	184.7	100.9	32.5
85°	10.3	12.0	35.9	63.3	88.9	51.3	66.7	58.1	51.3	42.7	10.3
87.5°	1.7	1.7	13.7	34.2	23.9	8.5	6.8	12.0	18.8	20.5	3.4
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°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
2.5°	574.5	571.1	567.7	565.9	565.9	562.5	560.8	559.1	559.1	557.4	557.4
5°	581.3	577.9	574.5	572.8	569.4	567.7	567.7	567.7	565.9	567.7	569.4
7.5°	598.4	593.3	591.6	589.9	589.9	584.8	576.2	554.0	531.7	524.9	518.1
10°	622.4	620.7	620.7	620.7	608.7	564.2	502.7	448.0	418.9	395.0	395.0
12.5°	656.6	656.6	654.9	649.7	588.2	480.5	384.7	302.6	254.8	227.4	230.8
15°	694.2	692.5	695.9	663.4	518.1	371.0	232.5	164.1	138.5	135.1	135.1
17.5°	733.5	736.9	733.5	627.5	425.7	229.1	138.5	124.8	121.4	121.4	121.4
20°	774.5	771.1	766.0	565.9	309.5	143.6	119.7	116.3	112.8	111.1	111.1
22.5°	815.6	812.2	778.0	487.3	193.2	118.0	112.8	106.0	100.9	99.2	99.2
25°	854.9	854.9	755.7	386.4	131.7	111.1	102.6	95.7	90.6	85.5	85.5
27.5°	904.5	907.9	719.8	270.1	111.1	102.6	92.3	82.1	75.2	71.8	71.8
30°	960.9	966.0	661.7	176.1	100.9	90.6	80.4	68.4	58.1	54.7	53.0
32.5°	1027.6	1032.7	595.0	116.3	90.6	78.7	66.7	51.3	41.0	39.3	37.6
35°	1113.1	1101.1	514.7	92.3	78.7	66.7	51.3	35.9	29.1	27.4	27.4
37.5°	1219.1	1193.4	422.3	80.4	66.7	53.0	37.6	23.9	18.8	18.8	17.1
40°	1340.5	1268.7	326.6	71.8	56.4	41.0	23.9	15.4	12.0	12.0	12.0
42.5°	1473.9	1331.9	232.5	63.3	46.2	29.1	15.4	8.5	6.8	6.8	6.8
45°	1627.7	1390.1	159.0	54.7	39.3	20.5	8.5	3.4	3.4	3.4	3.4
47.5°	1781.6	1427.7	106.0	47.9	29.1	12.0	5.1	1.7	1.7	1.7	1.7
50°	1937.2	1456.8	82.1	41.0	20.5	6.8	1.7	0.0	0.0	0.0	0.0
52.5°	2075.7	1477.3	66.7	34.2	13.7	5.1	1.7	0.0	0.0	0.0	0.0
55°	2195.4	1479.0	58.1	27.4	10.3	3.4	0.0	0.0	0.0	0.0	0.0
57.5°	2316.8	1465.3	49.6	20.5	6.8	1.7	0.0	0.0	0.0	0.0	0.0
60°	2390.3	1429.4	39.3	15.4	5.1	1.7	0.0	0.0	0.0	0.0	0.0
62.5°	2434.8	1369.6	30.8	10.3	3.4	1.7	0.0	0.0	0.0	0.0	0.0
65°	2409.1	1294.3	22.2	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0
67.5°	2289.4	1178.1	15.4	5.1	1.7	1.7	0.0	0.0	0.0	0.0	0.0
69°	2147.5	1072.0	13.7	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0
70°	2022.7	990.0	12.0	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	1506.3	637.8	10.3	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0
75°	846.4	213.7	6.8	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	318.0	54.7	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.1	13.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)