

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: P594682

Luminaire Tested: **ISS-PA1C-830-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
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-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5437 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

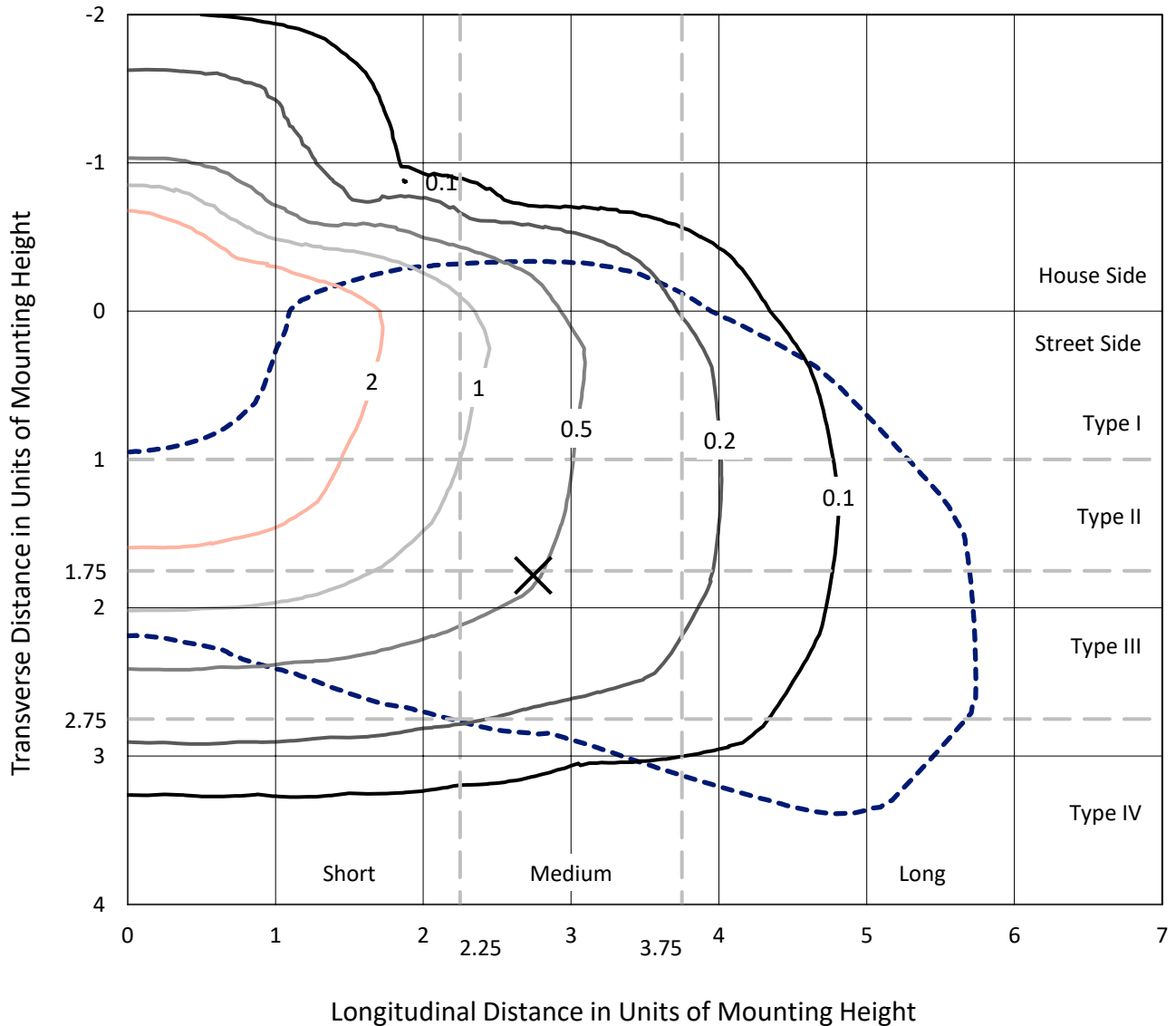
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594682
 CATALOG NUMBER: ISS-PA1C-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

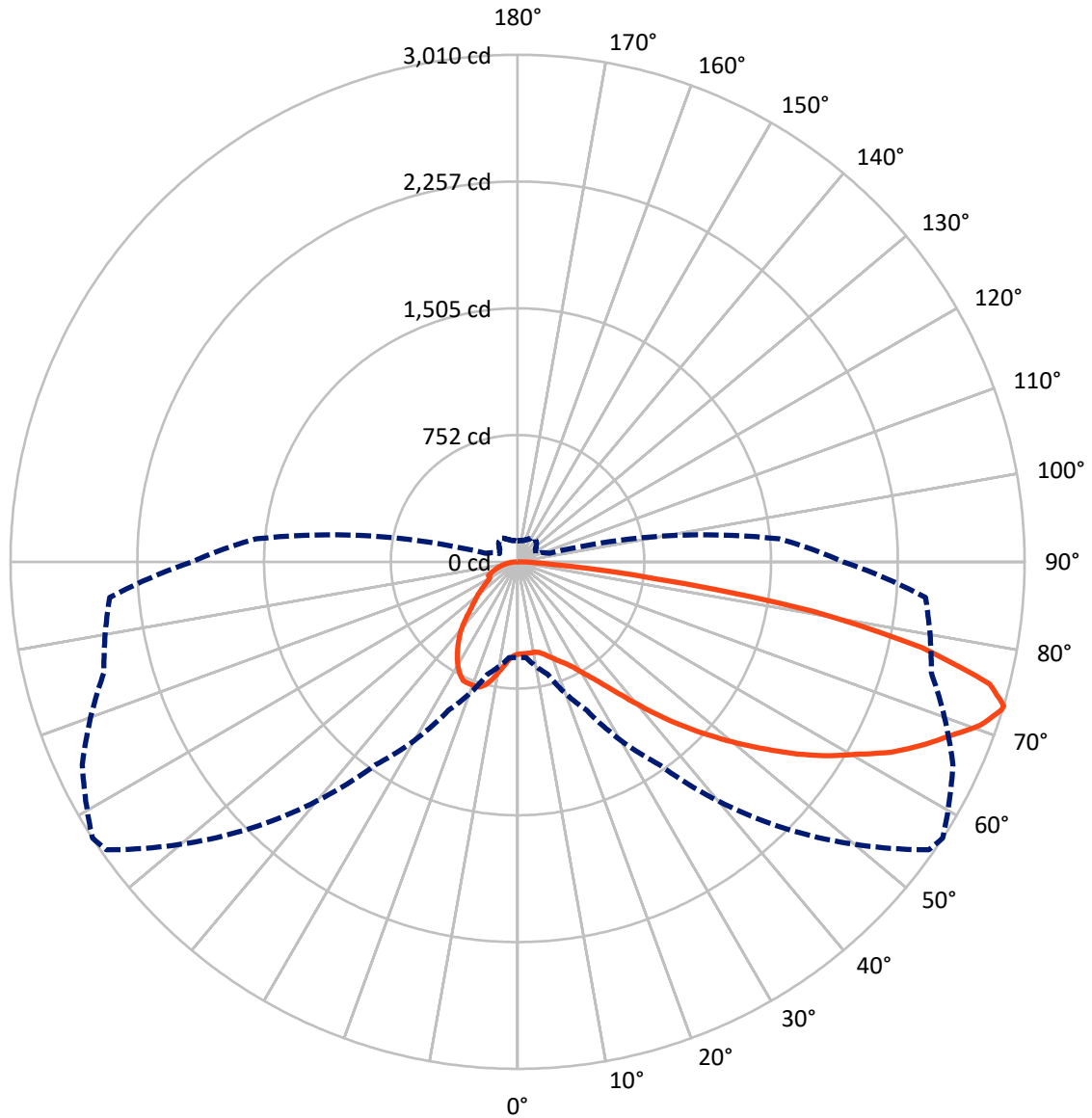
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594682
CATALOG NUMBER: ISS-PA1C-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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 CATALOG NUMBER: ISS-PA1C-830-U-T3

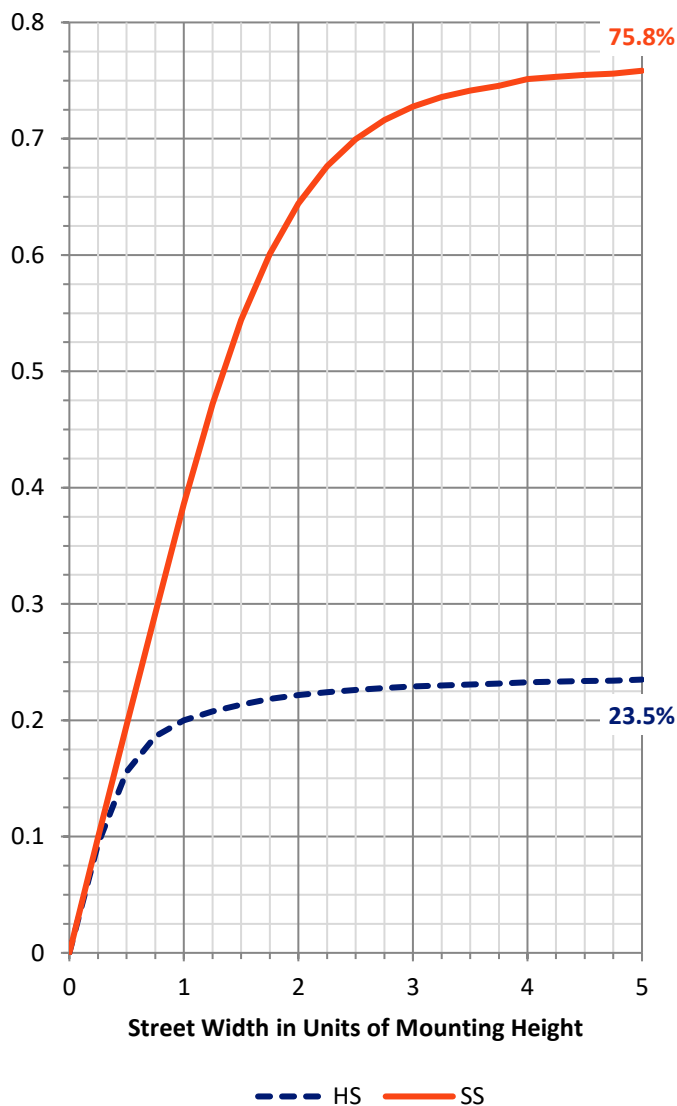
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1297.1	0.0	1297.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4139.9	0.0	4139.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	5437.0	0.0	5437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	1.0
10°-20°	179.9	3.3
20°-30°	332.0	6.1
30°-40°	512.7	9.4
40°-50°	771.8	14.2
50°-60°	1129.6	20.8
60°-70°	1333.9	24.5
70°-80°	955.0	17.6
80°-90°	167.3	3.1
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°	5437.0	100.0
0°-180°	5437.0	100.0

Coefficient of Utilization

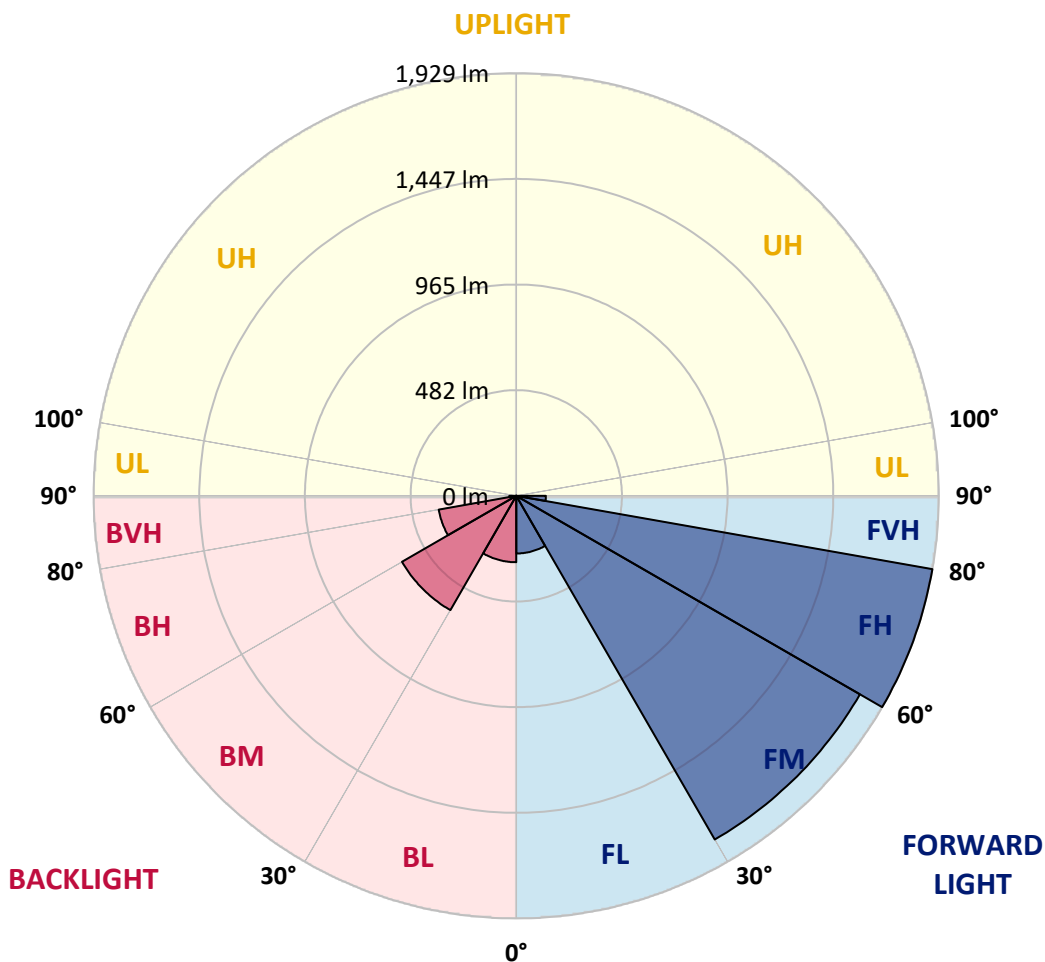


REPORT NUMBER: P594682
 CATALOG NUMBER: ISS-PA1C-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.4	4.8			
FM (30°-60°)	1811.8	33.3			
FH (60°-80°)	1929.3	35.5			G2/5000
FVH (80°-90°)	135.4	2.5			G2/225
BL (0°-30°)	303.1	5.6	B1/500		
BM (30°-60°)	602.4	11.1	B1/1000		
BH (60°-80°)	359.6	6.6	B1/500		G1/500
BVH (80°-90°)	32.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





REPORT NUMBER: P594682

CATALOG NUMBER: ISS-PA1C-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8
2.5°	541.1	543.8	542.4	543.8	547.8	545.1	545.1	546.4	547.8	546.4	549.1
5°	518.5	519.8	522.5	527.8	537.1	539.8	546.4	546.4	549.1	551.8	555.8
7.5°	481.1	483.8	489.1	494.5	510.5	526.5	543.8	546.4	555.8	562.4	565.1
10°	474.5	477.1	478.5	486.5	502.5	518.5	539.8	545.1	562.4	573.1	585.1
12.5°	467.8	470.5	474.5	485.1	505.1	522.5	545.1	550.4	571.8	593.1	607.8
15°	473.1	474.5	478.5	489.1	509.1	533.1	562.4	566.4	590.4	617.1	639.7
17.5°	486.5	487.8	486.5	495.8	514.5	542.4	582.4	589.1	618.4	645.1	667.7
20°	517.1	518.5	513.1	513.1	526.5	554.4	603.8	613.1	649.1	678.4	701.1
22.5°	583.8	581.1	567.8	550.4	550.4	573.1	627.7	641.1	686.4	710.4	730.4
25°	678.4	678.4	657.1	625.1	603.8	601.1	655.7	670.4	723.7	753.0	765.0
27.5°	793.0	794.3	759.7	717.0	675.7	655.7	695.7	710.4	770.4	801.0	805.0
30°	894.3	895.6	861.0	821.0	770.4	726.4	749.0	765.0	834.3	858.3	845.0
32.5°	995.6	996.9	972.9	918.3	865.0	810.3	817.0	826.3	897.0	919.6	898.3
35°	1083.6	1087.6	1063.6	1022.3	966.3	917.0	905.0	906.3	970.3	984.9	956.9
37.5°	1172.9	1172.9	1158.2	1119.6	1071.6	1016.9	1000.9	1004.9	1062.2	1076.9	1036.9
40°	1286.2	1291.5	1283.5	1235.5	1180.9	1135.5	1119.6	1124.9	1187.5	1179.5	1136.9
42.5°	1423.4	1435.4	1422.1	1370.1	1311.5	1260.8	1260.8	1260.8	1314.1	1315.5	1251.5
45°	1599.4	1599.4	1586.0	1540.7	1463.4	1412.8	1395.4	1399.4	1446.1	1451.4	1376.8
47.5°	1746.0	1759.3	1744.6	1711.3	1650.0	1602.0	1547.4	1540.7	1579.4	1579.4	1515.4
50°	1864.6	1888.6	1876.6	1891.2	1847.3	1823.3	1711.3	1692.7	1706.0	1719.3	1648.7
52.5°	1963.2	1981.9	1977.9	2020.5	2041.8	2055.2	1877.9	1848.6	1859.3	1857.9	1793.9
55°	1969.9	1976.5	2036.5	2132.5	2216.4	2279.1	2045.8	2013.9	2003.2	1997.9	1948.6
57.5°	1931.2	1935.2	2055.2	2168.5	2351.1	2423.0	2204.4	2172.5	2157.8	2139.1	2119.1
60°	1837.9	1857.9	2015.2	2189.8	2431.0	2535.0	2352.4	2319.1	2308.4	2268.4	2313.7
62.5°	1719.3	1728.6	1885.9	2145.8	2441.7	2583.0	2508.3	2488.3	2455.0	2397.7	2487.0
65°	1551.4	1550.0	1688.7	2016.5	2387.0	2607.0	2640.3	2629.6	2588.3	2489.7	2641.6
67.5°	1274.2	1304.8	1440.8	1787.3	2255.1	2630.9	2774.9	2761.6	2696.3	2572.3	2714.9
70°	971.6	990.3	1144.9	1443.4	1992.5	2565.6	2906.8	2910.8	2792.2	2589.6	2682.9
72.5°	619.8	651.7	774.4	1051.6	1595.4	2323.1	2985.5	3004.1	2845.5	2565.6	2484.3
73°	567.8	570.4	690.4	972.9	1471.4	2236.4	2980.1	3009.5	2850.9	2541.6	2429.7
75°	338.5	353.2	425.2	646.4	1050.2	1796.6	2836.2	2894.8	2822.9	2435.0	2129.8
77.5°	158.6	169.3	209.2	341.2	571.8	1080.9	2384.4	2453.7	2501.7	2131.1	1623.3
80°	84.0	85.3	102.6	171.9	306.5	445.2	1662.0	1776.6	1844.6	1604.7	1091.6
82.5°	70.6	70.6	80.0	110.6	195.9	173.3	685.1	815.7	999.6	790.3	429.2
85°	57.3	58.6	80.0	82.6	139.9	89.3	163.9	205.3	387.8	349.2	48.0
87.5°	18.7	21.3	45.3	58.6	74.6	34.7	41.3	45.3	45.3	66.6	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594682
 CATALOG NUMBER: ISS-PA1C-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8
2.5°	550.4	550.4	551.8	553.1	555.8	555.8	558.4	559.8	562.4	563.8	559.8
5°	555.8	558.4	561.1	569.1	578.4	586.4	594.4	601.1	607.8	611.8	610.4
7.5°	570.4	574.4	585.1	599.8	618.4	630.4	642.4	654.4	659.7	662.4	662.4
10°	590.4	598.4	618.4	642.4	663.7	682.4	691.7	699.7	702.4	705.1	702.4
12.5°	618.4	629.1	659.7	690.4	714.4	723.7	722.4	711.7	697.1	694.4	691.7
15°	654.4	667.7	702.4	738.4	757.0	745.0	714.4	703.7	701.1	709.0	706.4
17.5°	685.1	701.1	743.7	781.0	777.0	735.7	726.4	731.7	729.0	730.4	730.4
20°	714.4	737.0	782.4	807.7	773.0	746.4	738.4	731.7	723.7	726.4	723.7
22.5°	751.7	767.7	819.7	821.0	767.7	746.4	729.0	715.7	713.0	714.4	715.7
25°	781.0	806.3	851.7	811.7	767.7	725.0	701.1	698.4	699.7	707.7	705.1
27.5°	821.0	846.3	877.0	806.3	735.7	690.4	681.1	679.7	670.4	673.1	673.1
30°	858.3	889.0	890.3	806.3	695.7	661.1	647.7	623.7	603.8	607.8	606.4
32.5°	909.0	935.6	893.0	774.4	650.4	622.4	586.4	549.1	539.8	545.1	546.4
35°	967.6	988.9	895.6	721.0	605.1	567.8	502.5	481.1	479.8	483.8	487.8
37.5°	1044.9	1056.9	915.6	659.7	561.1	482.5	431.8	426.5	414.5	406.5	407.8
40°	1139.5	1124.9	954.3	605.1	509.1	405.2	383.8	369.2	346.5	323.9	327.9
42.5°	1244.8	1203.5	966.3	561.1	438.5	357.2	337.2	314.5	286.6	262.6	261.2
45°	1358.1	1291.5	955.6	526.5	367.9	321.2	299.9	273.2	239.9	219.9	219.9
47.5°	1492.7	1375.4	922.3	498.5	318.5	289.2	262.6	235.9	213.2	194.6	194.6
50°	1640.7	1472.7	898.3	449.2	283.9	258.6	231.9	210.6	193.3	178.6	178.6
52.5°	1796.6	1564.7	878.3	377.2	253.2	230.6	211.9	194.6	179.9	161.3	158.6
55°	1955.2	1652.7	887.6	307.9	225.2	210.6	198.6	181.3	175.9	171.9	169.3
57.5°	2120.5	1748.6	910.3	251.9	201.3	199.9	194.6	206.6	218.6	210.6	206.6
60°	2249.8	1823.3	913.0	211.9	186.6	210.6	237.2	241.2	209.2	190.6	189.3
62.5°	2352.4	1893.9	850.3	183.9	190.6	247.9	253.2	213.2	181.3	173.3	173.3
65°	2405.7	1919.2	683.7	167.9	198.6	237.2	229.2	191.9	169.3	167.9	167.9
67.5°	2379.0	1899.2	478.5	150.6	175.9	205.3	205.3	175.9	155.9	162.6	159.9
70°	2251.1	1800.6	315.9	135.9	154.6	185.3	190.6	163.9	145.3	149.3	145.3
72.5°	1984.5	1624.7	207.9	120.0	133.3	163.9	177.3	150.6	133.3	131.9	127.9
73°	1932.6	1558.0	195.9	117.3	129.3	158.6	173.3	147.9	130.6	126.6	124.0
75°	1639.3	1299.5	147.9	105.3	114.6	142.6	161.3	138.6	120.0	114.6	112.0
77.5°	1194.2	901.0	110.6	89.3	96.0	124.0	142.6	126.6	106.6	100.0	98.6
80°	745.0	490.5	82.6	72.0	76.0	104.0	125.3	113.3	92.0	84.0	82.6
82.5°	291.9	159.9	57.3	53.3	56.0	78.6	105.3	98.6	77.3	70.6	66.6
85°	48.0	54.6	37.3	36.0	36.0	56.0	80.0	76.0	52.0	45.3	40.0
87.5°	13.3	25.3	14.7	13.3	13.3	24.0	44.0	34.7	21.3	17.3	16.0
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)