

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: P594718

Luminaire Tested: **ISS-PA1D-735-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594718
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-PA1D-735-U-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7940 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

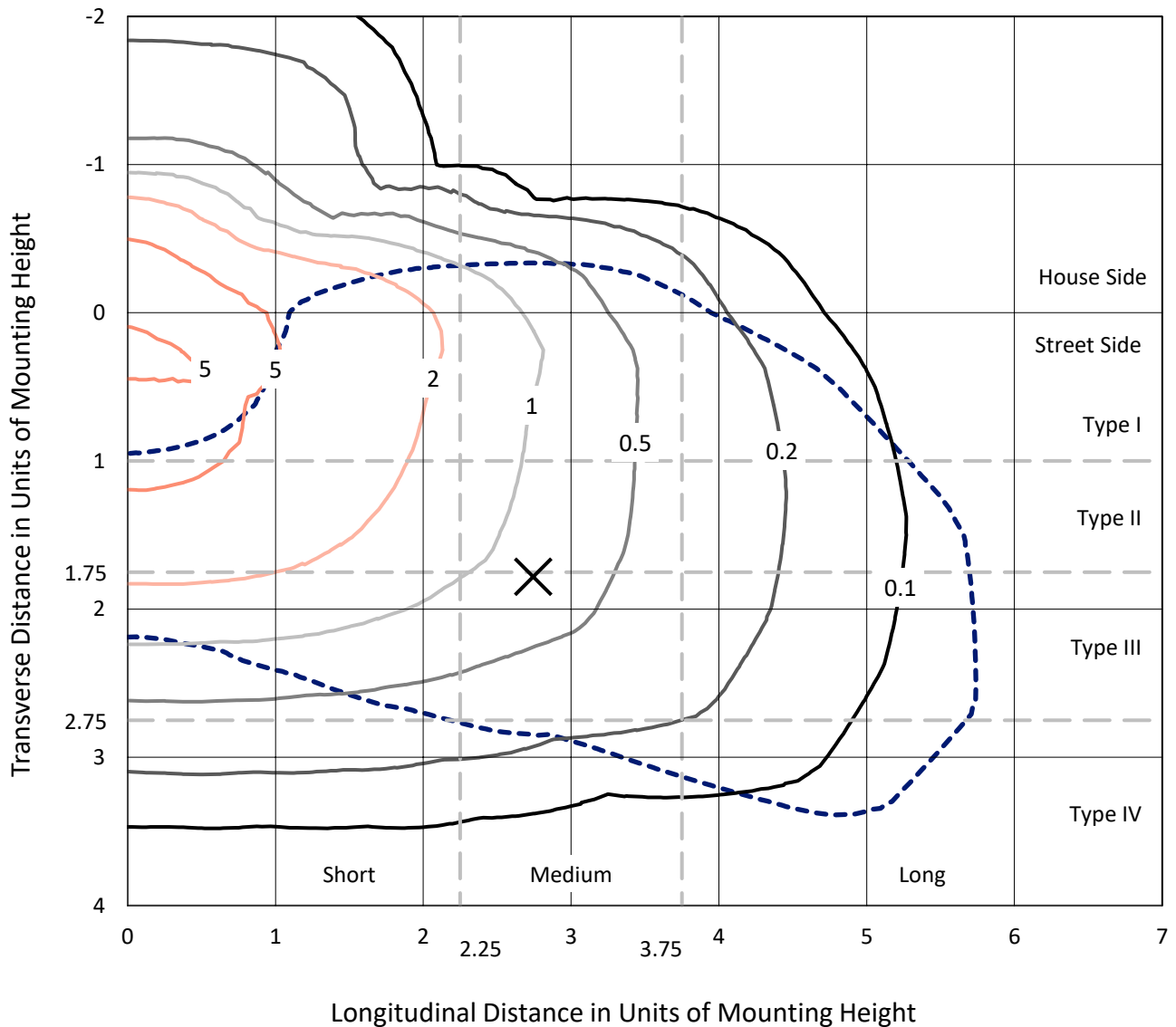
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

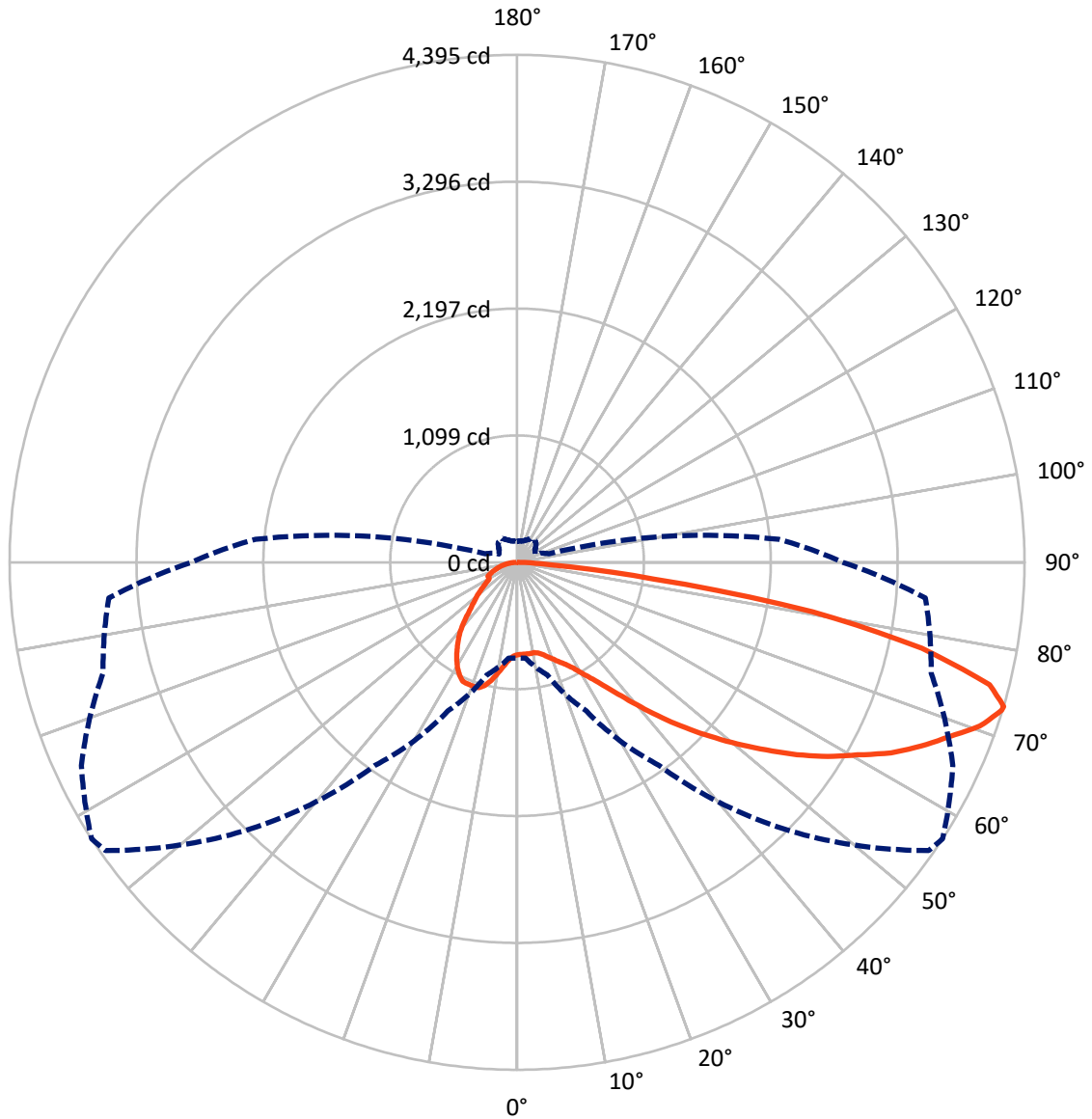
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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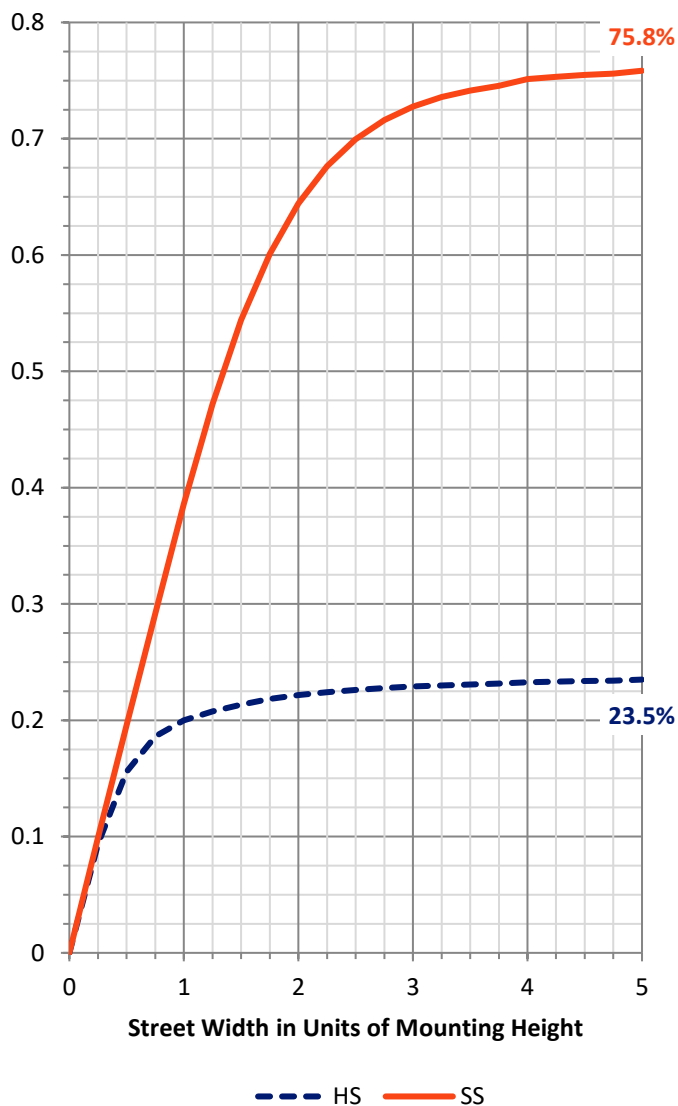
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1894.2	0.0	1894.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6045.8	0.0	6045.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	7940.0	0.0	7940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.0
10°-20°	262.7	3.3
20°-30°	484.9	6.1
30°-40°	748.8	9.4
40°-50°	1127.1	14.2
50°-60°	1649.6	20.8
60°-70°	1948.0	24.5
70°-80°	1394.7	17.6
80°-90°	244.4	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°	7940.0	100.0
0°-180°	7940.0	100.0

Coefficient of Utilization

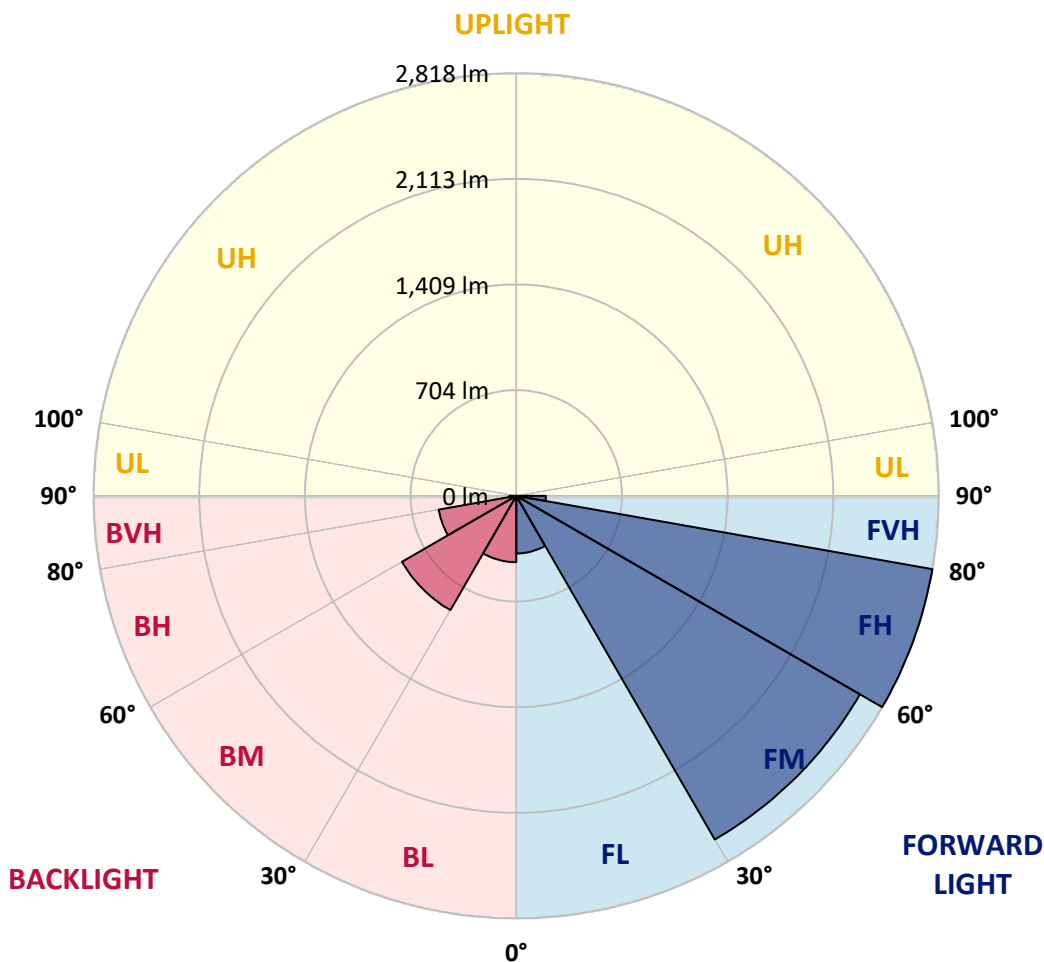


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.7	4.8			
FM (30°-60°)	2645.8	33.3			
FH (60°-80°)	2817.5	35.5			G2/5000
FVH (80°-90°)	197.7	2.5			G2/225
BL (0°-30°)	442.7	5.6	B1/500		
BM (30°-60°)	879.7	11.1	B1/1000		
BH (60°-80°)	525.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	46.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0
2.5°	790.2	794.1	792.2	794.1	800.0	796.1	796.1	798.0	800.0	798.0	801.9
5°	757.1	759.1	763.0	770.8	784.4	788.3	798.0	798.0	801.9	805.8	811.6
7.5°	702.6	706.5	714.3	722.1	745.5	768.8	794.1	798.0	811.6	821.4	825.3
10°	692.9	696.8	698.7	710.4	733.8	757.1	788.3	796.1	821.4	836.9	854.5
12.5°	683.2	687.1	692.9	708.5	737.7	763.0	796.1	803.9	835.0	866.1	887.5
15°	691.0	692.9	698.7	714.3	743.5	778.5	821.4	827.2	862.2	901.2	934.3
17.5°	710.4	712.4	710.4	724.0	751.3	792.2	850.6	860.3	903.1	942.0	975.1
20°	755.2	757.1	749.4	749.4	768.8	809.7	881.7	895.3	947.9	990.7	1023.8
22.5°	852.5	848.6	829.2	803.9	803.9	836.9	916.7	936.2	1002.4	1037.4	1066.6
25°	990.7	990.7	959.6	912.8	881.7	877.8	957.6	979.0	1056.9	1099.7	1117.2
27.5°	1158.1	1160.0	1109.4	1047.1	986.8	957.6	1016.0	1037.4	1125.0	1169.8	1175.6
30°	1306.0	1308.0	1257.4	1199.0	1125.0	1060.8	1093.9	1117.2	1218.4	1253.5	1234.0
32.5°	1453.9	1455.9	1420.9	1341.0	1263.2	1183.4	1193.1	1206.7	1309.9	1343.0	1311.9
35°	1582.4	1588.2	1553.2	1492.9	1411.1	1339.1	1321.6	1323.5	1417.0	1438.4	1397.5
37.5°	1712.8	1712.8	1691.4	1635.0	1564.9	1485.1	1461.7	1467.6	1551.3	1572.7	1514.3
40°	1878.2	1886.0	1874.4	1804.3	1724.5	1658.3	1635.0	1642.7	1734.2	1722.5	1660.3
42.5°	2078.7	2096.2	2076.8	2000.9	1915.2	1841.3	1841.3	1841.3	1919.1	1921.1	1827.6
45°	2335.6	2335.6	2316.2	2250.0	2137.1	2063.2	2037.9	2043.7	2111.8	2119.6	2010.6
47.5°	2549.7	2569.2	2547.8	2499.1	2409.6	2339.5	2259.7	2250.0	2306.4	2306.4	2213.0
50°	2723.0	2758.0	2740.5	2761.9	2697.7	2662.6	2499.1	2471.9	2491.4	2510.8	2407.7
52.5°	2867.0	2894.3	2888.4	2950.7	2981.8	3001.3	2742.4	2699.6	2715.2	2713.2	2619.8
55°	2876.7	2886.5	2974.1	3114.2	3236.8	3328.3	2987.7	2941.0	2925.4	2917.6	2845.6
57.5°	2820.3	2826.1	3001.3	3166.7	3433.4	3538.5	3219.3	3172.6	3151.2	3123.9	3094.7
60°	2684.0	2713.2	2942.9	3197.9	3550.2	3702.0	3435.3	3386.7	3371.1	3312.7	3378.9
62.5°	2510.8	2524.4	2754.1	3133.7	3565.8	3772.1	3663.1	3633.9	3585.2	3501.5	3631.9
65°	2265.6	2263.6	2466.1	2944.9	3486.0	3807.1	3855.8	3840.2	3779.9	3635.8	3857.7
67.5°	1860.7	1905.5	2104.0	2610.1	3293.3	3842.1	4052.3	4032.9	3937.5	3756.5	3964.8
70°	1418.9	1446.2	1671.9	2107.9	2909.8	3746.8	4245.0	4250.9	4077.6	3781.8	3918.0
72.5°	905.1	951.8	1130.8	1535.7	2329.8	3392.5	4359.9	4387.1	4155.5	3746.8	3628.0
73°	829.2	833.0	1008.2	1420.9	2148.8	3266.0	4352.1	4394.9	4163.3	3711.7	3548.2
75°	494.4	515.8	620.9	944.0	1533.7	2623.7	4141.9	4227.5	4122.4	3556.0	3110.3
77.5°	231.6	247.2	305.6	498.3	835.0	1578.5	3482.1	3583.3	3653.3	3112.2	2370.7
80°	122.6	124.6	149.9	251.1	447.7	650.1	2427.1	2594.5	2693.8	2343.4	1594.1
82.5°	103.2	103.2	116.8	161.5	286.1	253.0	1000.4	1191.2	1459.8	1154.2	626.7
85°	83.7	85.6	116.8	120.7	204.4	130.4	239.4	299.7	566.4	509.9	70.1
87.5°	27.2	31.1	66.2	85.6	109.0	50.6	60.3	66.2	66.2	97.3	23.4
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°	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0
2.5°	803.9	803.9	805.8	807.7	811.6	811.6	815.5	817.5	821.4	823.3	817.5
5°	811.6	815.5	819.4	831.1	844.7	856.4	868.1	877.8	887.5	893.4	891.4
7.5°	833.0	838.9	854.5	875.9	903.1	920.6	938.2	955.7	963.5	967.3	967.3
10°	862.2	873.9	903.1	938.2	969.3	996.5	1010.2	1021.8	1025.7	1029.6	1025.7
12.5°	903.1	918.7	963.5	1008.2	1043.3	1056.9	1054.9	1039.4	1018.0	1014.1	1010.2
15°	955.7	975.1	1025.7	1078.3	1105.5	1088.0	1043.3	1027.7	1023.8	1035.5	1031.6
17.5°	1000.4	1023.8	1086.1	1140.6	1134.7	1074.4	1060.8	1068.6	1064.7	1066.6	1066.6
20°	1043.3	1076.3	1142.5	1179.5	1128.9	1090.0	1078.3	1068.6	1056.9	1060.8	1056.9
22.5°	1097.8	1121.1	1197.0	1199.0	1121.1	1090.0	1064.7	1045.2	1041.3	1043.3	1045.2
25°	1140.6	1177.6	1243.7	1185.3	1121.1	1058.8	1023.8	1019.9	1021.8	1033.5	1029.6
27.5°	1199.0	1235.9	1280.7	1177.6	1074.4	1008.2	994.6	992.6	979.0	982.9	982.9
30°	1253.5	1298.2	1300.2	1177.6	1016.0	965.4	945.9	910.9	881.7	887.5	885.6
32.5°	1327.4	1366.4	1304.1	1130.8	949.8	909.0	856.4	801.9	788.3	796.1	798.0
35°	1413.1	1444.2	1308.0	1053.0	883.7	829.2	733.8	702.6	700.7	706.5	712.4
37.5°	1526.0	1543.5	1337.2	963.5	819.4	704.6	630.6	622.8	605.3	593.6	595.6
40°	1664.1	1642.7	1393.6	883.7	743.5	591.7	560.6	539.1	506.1	473.0	478.8
42.5°	1817.9	1757.6	1411.1	819.4	640.4	521.6	492.4	459.3	418.5	383.4	381.5
45°	1983.4	1886.0	1395.5	768.8	537.2	469.1	437.9	399.0	350.3	321.2	321.2
47.5°	2179.9	2008.7	1346.9	727.9	465.2	422.4	383.4	344.5	311.4	284.2	284.2
50°	2396.0	2150.7	1311.9	655.9	414.6	377.6	338.7	307.5	282.2	260.8	260.8
52.5°	2623.7	2285.0	1282.7	550.8	369.8	336.7	309.5	284.2	262.8	235.5	231.6
55°	2855.3	2413.5	1296.3	449.6	328.9	307.5	290.0	264.7	256.9	251.1	247.2
57.5°	3096.7	2553.6	1329.4	367.9	293.9	292.0	284.2	301.7	319.2	307.5	301.7
60°	3285.5	2662.6	1333.3	309.5	272.5	307.5	346.5	352.3	305.6	278.3	276.4
62.5°	3435.3	2765.8	1241.8	268.6	278.3	362.0	369.8	311.4	264.7	253.0	253.0
65°	3513.2	2802.8	998.5	245.2	290.0	346.5	334.8	280.3	247.2	245.2	245.2
67.5°	3474.3	2773.6	698.7	219.9	256.9	299.7	299.7	256.9	227.7	237.5	233.6
70°	3287.4	2629.5	461.3	198.5	225.8	270.5	278.3	239.4	212.2	218.0	212.2
72.5°	2898.1	2372.6	303.6	175.2	194.6	239.4	258.9	219.9	194.6	192.7	186.9
73°	2822.2	2275.3	286.1	171.3	188.8	231.6	253.0	216.0	190.7	184.9	181.0
75°	2394.0	1897.7	216.0	153.8	167.4	208.3	235.5	202.4	175.2	167.4	163.5
77.5°	1743.9	1315.7	161.5	130.4	140.1	181.0	208.3	184.9	155.7	146.0	144.0
80°	1088.0	716.3	120.7	105.1	110.9	151.8	183.0	165.4	134.3	122.6	120.7
82.5°	426.3	233.6	83.7	77.9	81.7	114.8	153.8	144.0	112.9	103.2	97.3
85°	70.1	79.8	54.5	52.6	52.6	81.7	116.8	110.9	75.9	66.2	58.4
87.5°	19.5	37.0	21.4	19.5	19.5	35.0	64.2	50.6	31.1	25.3	23.4
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)