

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: P594633

Luminaire Tested: **ISS-PA1C-735-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1C-735-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6530 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

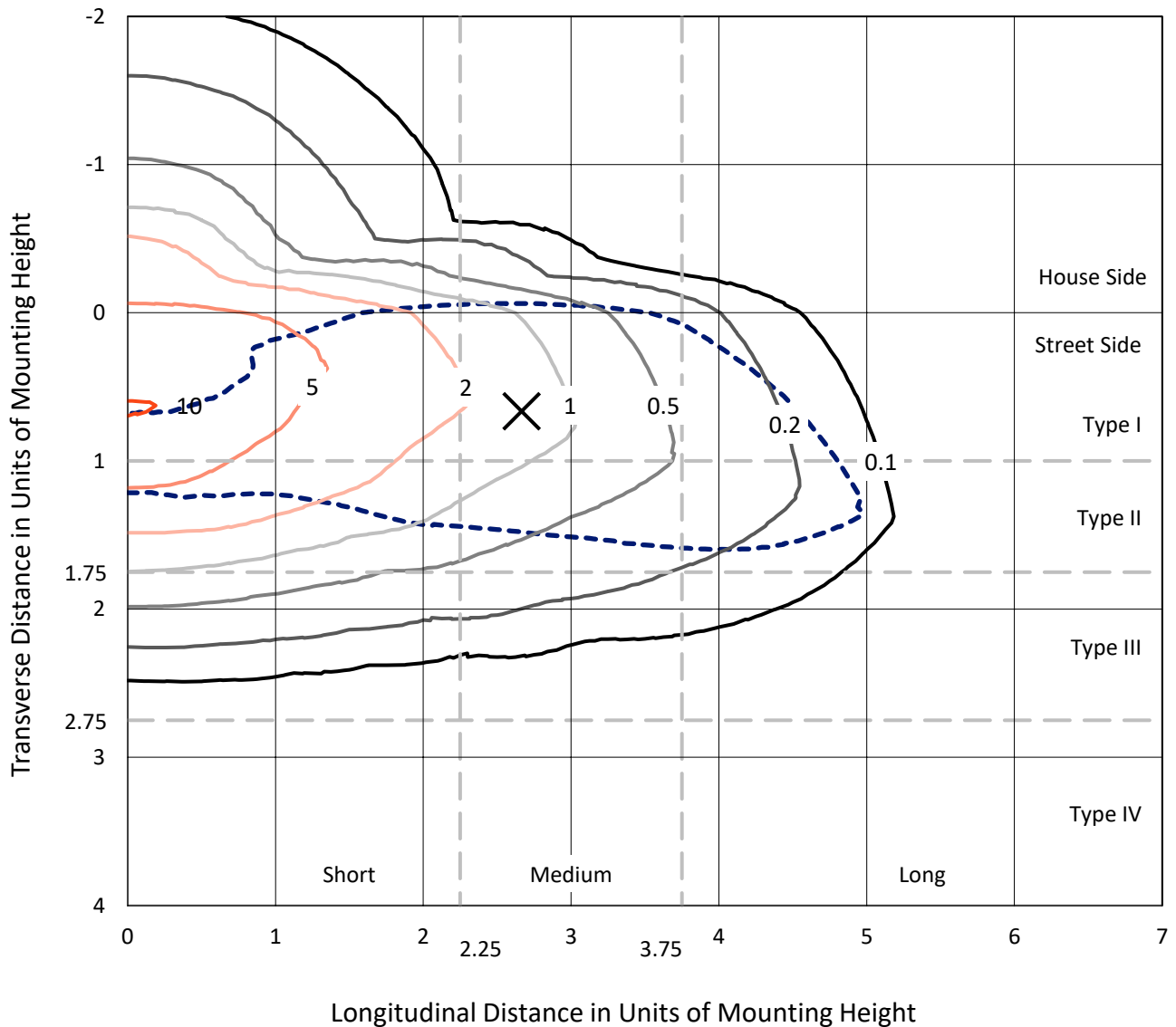
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594633
 CATALOG NUMBER: ISS-PA1C-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

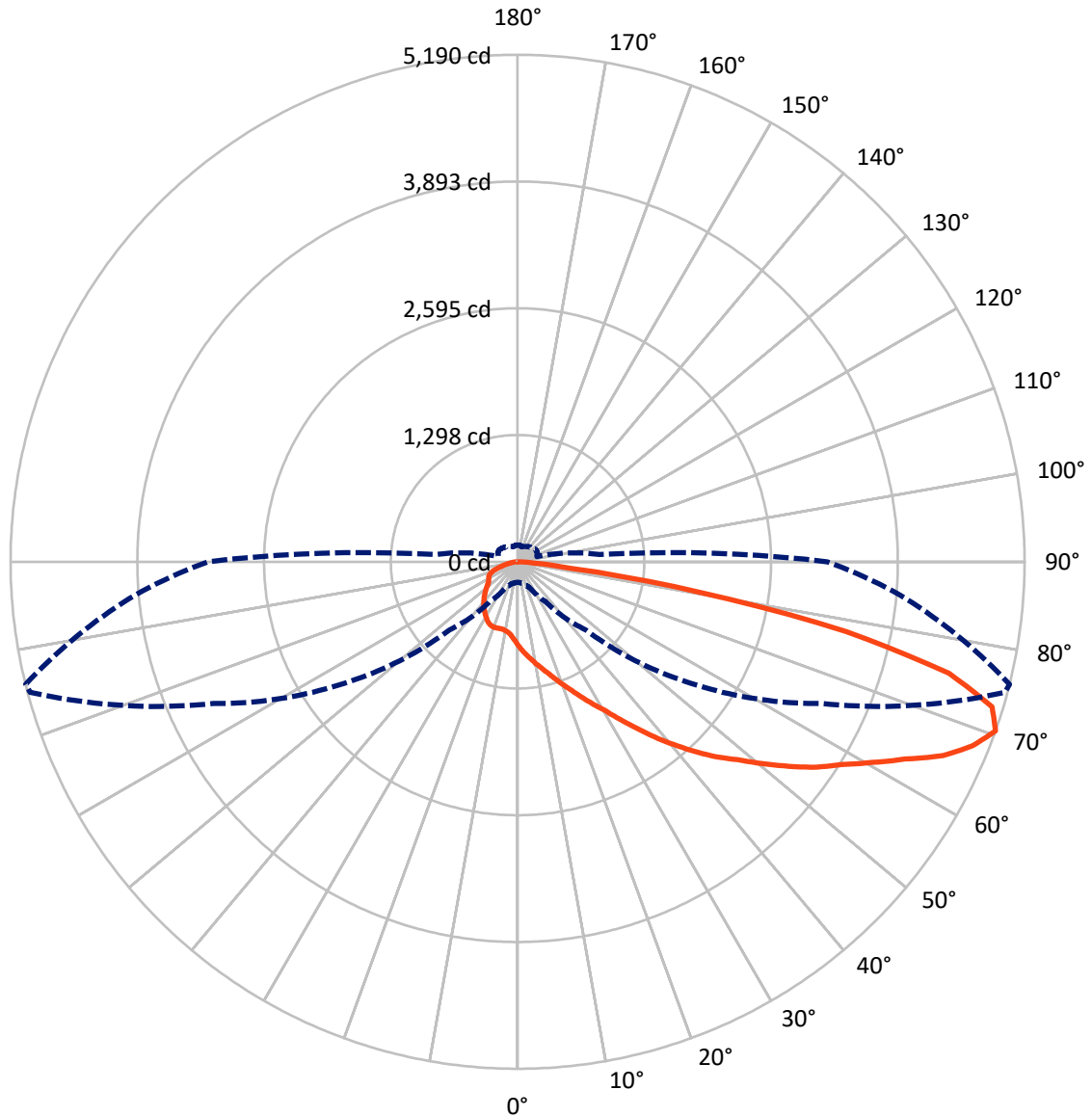
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P594633
CATALOG NUMBER: ISS-PA1C-735-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: ISS-PA1C-735-U-T2R

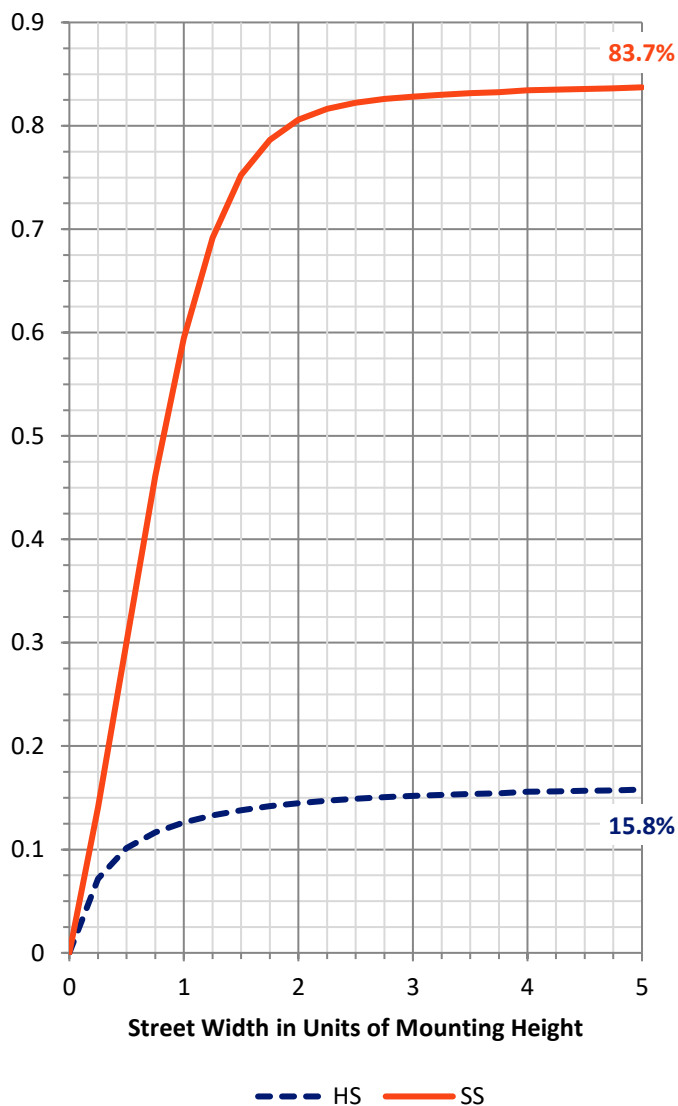
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1047.4	0.0	1047.4
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	5482.6	0.0	5482.6
	% Fixture	84.0	0.0	84.0
Total	Lumens	6530.0	0.0	6530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.3
10°-20°	275.5	4.2
20°-30°	507.7	7.8
30°-40°	850.7	13.0
40°-50°	1208.8	18.5
50°-60°	1395.6	21.4
60°-70°	1282.9	19.6
70°-80°	808.9	12.4
80°-90°	116.4	1.8
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°	6530.0	100.0
0°-180°	6530.0	100.0

Coefficient of Utilization

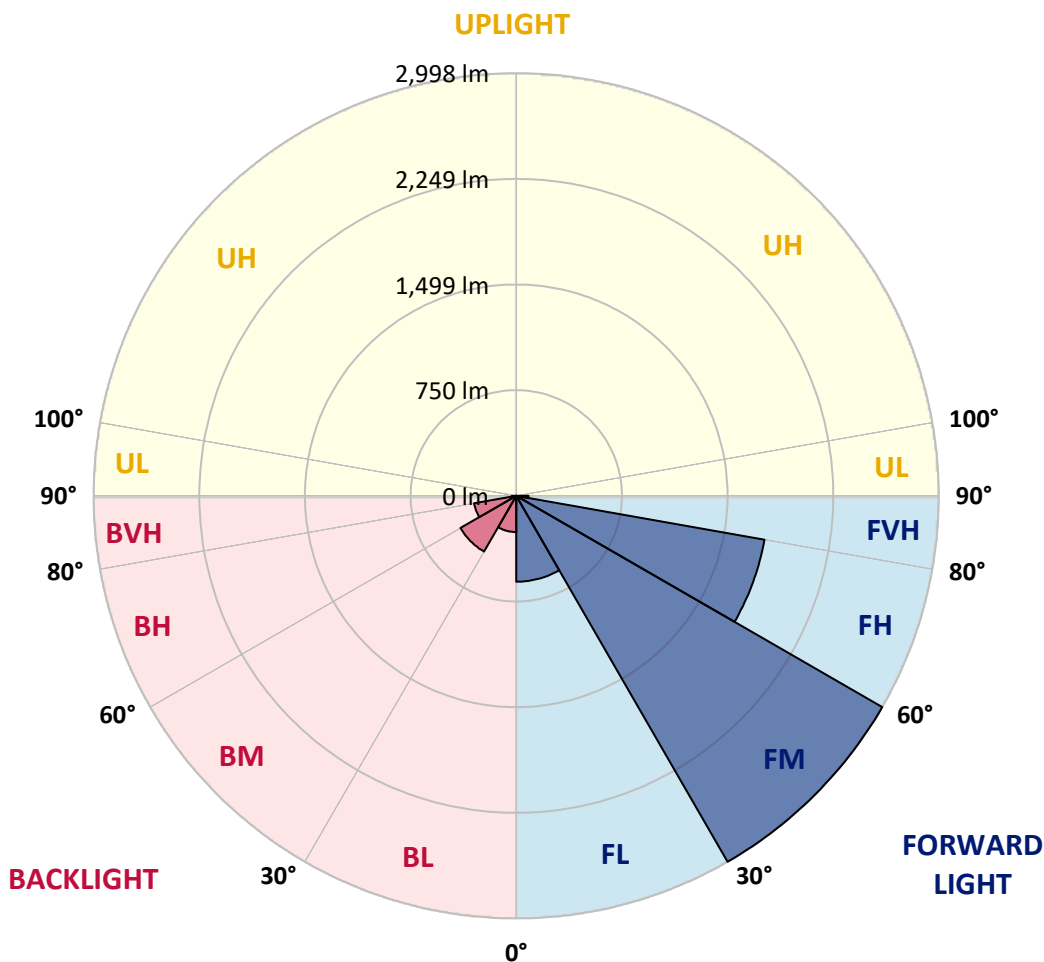


REPORT NUMBER: P594633
 CATALOG NUMBER: ISS-PA1C-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.7	9.3			
FM (30°-60°)	2998.4	45.9			
FH (60°-80°)	1788.3	27.4			G1/1800
FVH (80°-90°)	86.2	1.3			G1/100
BL (0°-30°)	257.1	3.9	B1/500		
BM (30°-60°)	456.6	7.0	B1/1000		
BH (60°-80°)	303.6	4.6	B1/500		G1/500
BVH (80°-90°)	30.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium





REPORT NUMBER: P594633

CATALOG NUMBER: ISS-PA1C-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	1031.1	1029.5	1024.8	1017.0	1010.7	991.8	966.7	944.7	911.7	908.5	875.5
5°	1123.8	1117.6	1117.6	1109.7	1101.8	1081.4	1050.0	1010.7	963.5	960.4	897.5
7.5°	1167.9	1169.4	1166.3	1160.0	1161.6	1144.3	1116.0	1076.7	1012.2	1009.1	927.4
10°	1230.7	1229.2	1222.9	1218.2	1216.6	1200.9	1175.7	1139.6	1072.0	1065.7	962.0
12.5°	1292.0	1287.3	1288.9	1287.3	1284.2	1268.5	1244.9	1208.7	1125.4	1122.3	1004.4
15°	1326.6	1325.0	1336.0	1339.2	1351.8	1337.6	1317.2	1276.3	1200.9	1188.3	1054.7
17.5°	1348.6	1347.0	1358.0	1383.2	1406.8	1406.8	1400.5	1356.5	1273.2	1263.7	1111.3
20°	1386.3	1392.6	1411.5	1431.9	1466.5	1472.8	1471.2	1452.4	1356.5	1347.0	1174.1
22.5°	1461.8	1458.6	1474.4	1505.8	1537.2	1546.7	1548.2	1548.2	1452.4	1435.1	1238.6
25°	1623.7	1615.8	1603.3	1600.1	1637.8	1636.3	1631.5	1642.5	1553.0	1540.4	1312.5
27.5°	1931.8	1914.5	1865.7	1768.3	1746.3	1754.1	1730.6	1732.1	1667.7	1652.0	1375.3
30°	2224.1	2216.3	2170.7	2052.8	1928.6	1884.6	1843.7	1826.4	1795.0	1768.3	1442.9
32.5°	2488.2	2489.8	2434.7	2305.9	2178.5	2040.2	1969.5	1933.3	1945.9	1922.3	1535.7
35°	2667.4	2653.2	2618.6	2532.2	2393.9	2261.8	2126.7	2046.5	2114.1	2087.4	1628.4
37.5°	2772.7	2761.7	2733.4	2672.1	2602.9	2475.6	2304.3	2181.7	2313.7	2274.4	1746.3
40°	2826.1	2810.4	2782.1	2757.0	2724.0	2654.8	2503.9	2335.7	2496.0	2461.5	1862.6
42.5°	2832.4	2821.4	2805.7	2793.1	2804.1	2794.7	2698.8	2514.9	2687.8	2650.1	1996.2
45°	2827.7	2835.6	2816.7	2794.7	2816.7	2896.9	2896.9	2694.1	2878.0	2849.7	2123.5
47.5°	2830.8	2823.0	2816.7	2810.4	2813.5	2923.6	3033.6	2862.3	3060.3	3027.3	2272.8
50°	2700.4	2711.4	2764.8	2788.4	2802.5	2929.9	3143.6	3044.6	3286.7	3245.8	2439.5
52.5°	2285.4	2291.7	2535.3	2711.4	2768.0	2904.7	3220.6	3247.4	3509.9	3478.4	2618.6
55°	1760.4	1793.4	2024.5	2455.2	2689.4	2862.3	3244.2	3379.4	3737.8	3712.6	2799.4
57.5°	1449.2	1453.9	1587.5	1972.6	2441.0	2823.0	3267.8	3500.4	3942.1	3913.8	2988.0
60°	1202.4	1191.4	1273.2	1521.5	2027.6	2665.8	3272.5	3596.3	4179.5	4170.0	3182.9
62.5°	883.4	895.9	974.5	1185.1	1586.0	2346.7	3248.9	3678.0	4462.4	4449.8	3399.8
65°	542.3	558.0	653.9	847.2	1200.9	1862.6	3094.9	3720.5	4759.5	4787.7	3634.0
67.5°	287.6	298.6	355.2	512.4	823.6	1419.3	2724.0	3667.0	5010.9	5023.5	3858.8
70°	210.6	212.2	231.1	289.2	496.7	987.1	2169.1	3434.4	5165.0	5190.1	3932.7
72.5°	183.9	185.5	193.3	207.5	270.4	602.0	1554.5	3028.9	5100.5	5078.5	3808.5
75°	166.6	166.6	172.9	177.6	198.0	333.2	952.5	2478.8	4608.6	4559.8	3247.4
77.5°	143.0	143.0	149.3	155.6	171.3	215.3	498.3	1837.5	3524.0	3440.7	2221.0
80°	114.7	114.7	122.6	130.5	150.9	161.9	243.6	1229.2	2015.1	1892.5	1010.7
82.5°	78.6	84.9	99.0	108.5	125.7	114.7	143.0	531.3	635.0	550.1	227.9
85°	47.2	50.3	70.7	81.7	94.3	61.3	88.0	204.3	190.2	166.6	51.9
87.5°	4.7	7.9	28.3	33.0	33.0	17.3	37.7	48.7	55.0	56.6	12.6
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: P594633
 CATALOG NUMBER: ISS-PA1C-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	856.6	837.8	801.6	768.6	735.6	713.6	691.6	683.7	672.7	664.9	671.2
5°	864.5	825.2	756.0	697.9	658.6	628.7	614.6	606.7	600.4	598.9	597.3
7.5°	873.9	815.8	723.0	658.6	620.9	606.7	603.6	603.6	603.6	605.1	606.7
10°	894.4	818.9	705.7	636.6	616.2	613.0	614.6	620.9	620.9	622.4	622.4
12.5°	917.9	826.8	693.2	633.4	620.9	622.4	624.0	627.2	627.2	631.9	630.3
15°	952.5	842.5	691.6	636.6	625.6	622.4	622.4	620.9	620.9	620.9	624.0
17.5°	996.5	864.5	693.2	636.6	620.9	614.6	609.9	605.1	598.9	602.0	598.9
20°	1040.5	891.2	693.2	628.7	608.3	592.6	578.4	570.6	562.7	561.1	562.7
22.5°	1095.6	922.7	685.3	611.4	581.6	559.6	539.1	528.1	515.6	510.8	507.7
25°	1142.7	947.8	669.6	586.3	551.7	520.3	493.5	474.7	459.0	455.8	455.8
27.5°	1191.4	969.8	646.0	554.9	509.3	474.7	444.8	421.2	405.5	404.0	402.4
30°	1237.0	988.7	614.6	520.3	471.5	430.7	396.1	375.7	361.5	353.7	348.9
32.5°	1296.7	1013.8	584.7	485.7	427.5	386.7	355.2	337.9	319.1	306.5	301.8
35°	1372.2	1043.7	551.7	448.0	388.2	347.4	328.5	303.4	279.8	265.6	260.9
37.5°	1457.1	1086.1	517.1	408.7	348.9	319.1	308.1	268.8	243.6	238.9	237.3
40°	1562.4	1127.0	477.8	367.8	311.2	303.4	284.5	243.6	231.1	229.5	227.9
42.5°	1667.7	1171.0	440.1	326.9	281.4	284.5	257.8	237.3	226.3	223.2	221.6
45°	1790.3	1215.0	402.4	290.8	257.8	257.8	243.6	231.1	221.6	218.5	218.5
47.5°	1919.2	1259.0	361.5	259.3	240.5	231.1	232.6	223.2	216.9	213.8	212.2
50°	2081.1	1301.5	323.8	237.3	229.5	216.9	221.6	215.3	212.2	209.1	207.5
52.5°	2233.5	1320.3	289.2	224.8	223.2	210.6	212.2	209.1	207.5	202.8	201.2
55°	2382.9	1315.6	262.5	218.5	215.3	209.1	205.9	204.3	202.8	198.0	196.5
57.5°	2549.5	1309.3	245.2	216.9	210.6	204.3	204.3	199.6	193.3	193.3	193.3
60°	2722.4	1288.9	237.3	216.9	209.1	204.3	201.2	196.5	190.2	191.8	190.2
62.5°	2917.3	1249.6	232.6	221.6	210.6	202.8	199.6	193.3	185.5	187.0	185.5
65°	3088.6	1169.4	229.5	226.3	213.8	204.3	196.5	188.6	179.2	180.8	179.2
67.5°	3204.9	1034.3	220.1	229.5	218.5	202.8	193.3	182.3	169.8	176.0	174.5
70°	3171.9	840.9	202.8	223.2	223.2	204.3	188.6	174.5	160.3	172.9	168.2
72.5°	2915.7	631.9	169.8	201.2	220.1	204.3	179.2	161.9	149.3	157.2	147.8
75°	2393.9	429.1	135.2	160.3	205.9	205.9	171.3	149.3	133.6	128.9	125.7
77.5°	1493.2	267.2	105.3	117.9	172.9	204.3	163.5	133.6	111.6	108.5	105.3
80°	591.0	143.0	83.3	84.9	127.3	187.0	152.5	113.2	89.6	86.4	80.2
82.5°	135.2	72.3	58.2	56.6	78.6	152.5	138.3	89.6	69.2	69.2	58.2
85°	40.9	37.7	37.7	36.2	39.3	78.6	106.9	61.3	47.2	33.0	28.3
87.5°	11.0	15.7	14.1	12.6	12.6	11.0	34.6	15.7	9.4	4.7	3.1
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)