

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: P595286

Luminaire Tested: **IST-PA1E-730-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595286
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: IST-PA1E-730-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 6707 lumens
Efficiency: N/A
Efficacy: 82.3 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

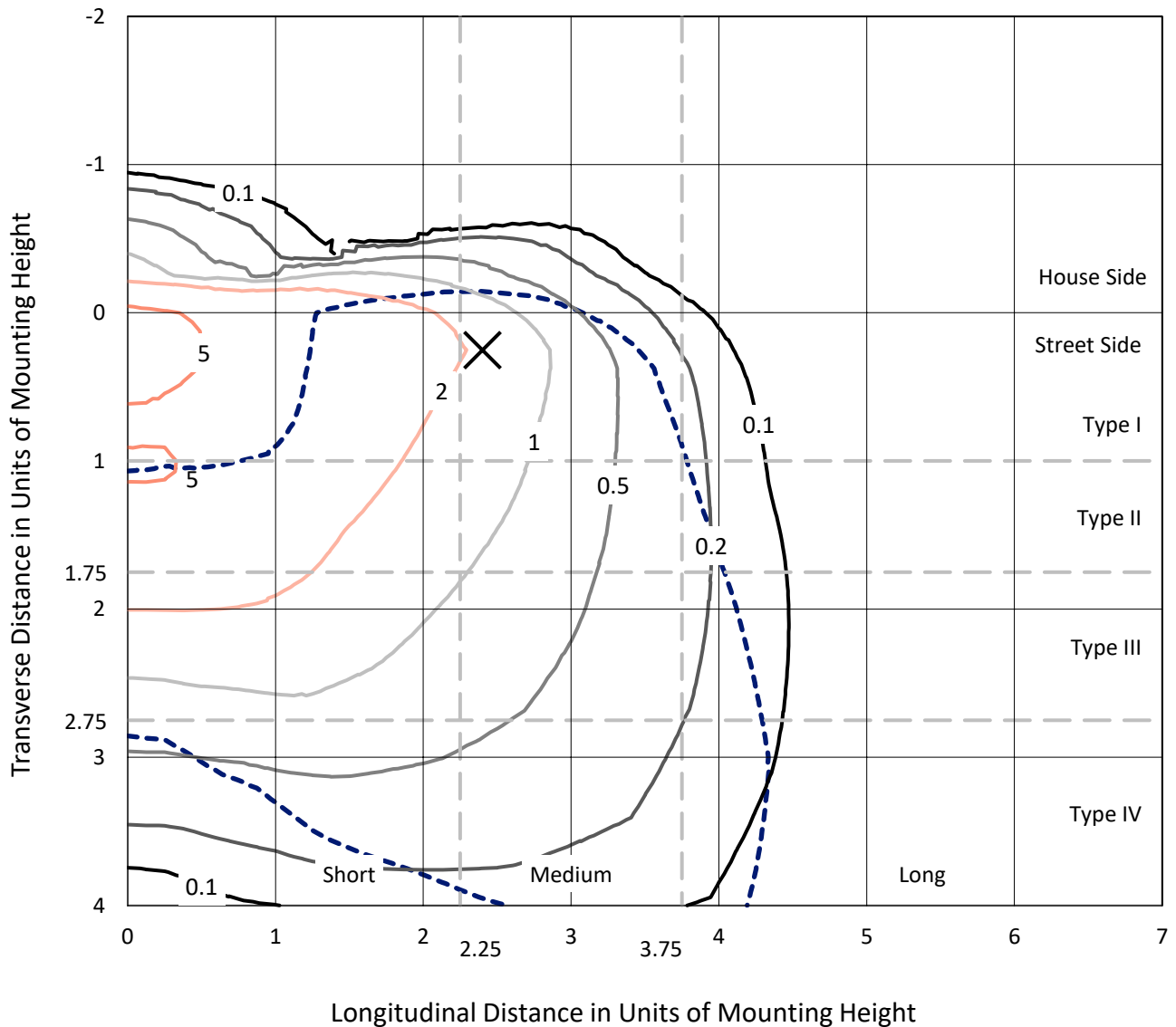
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

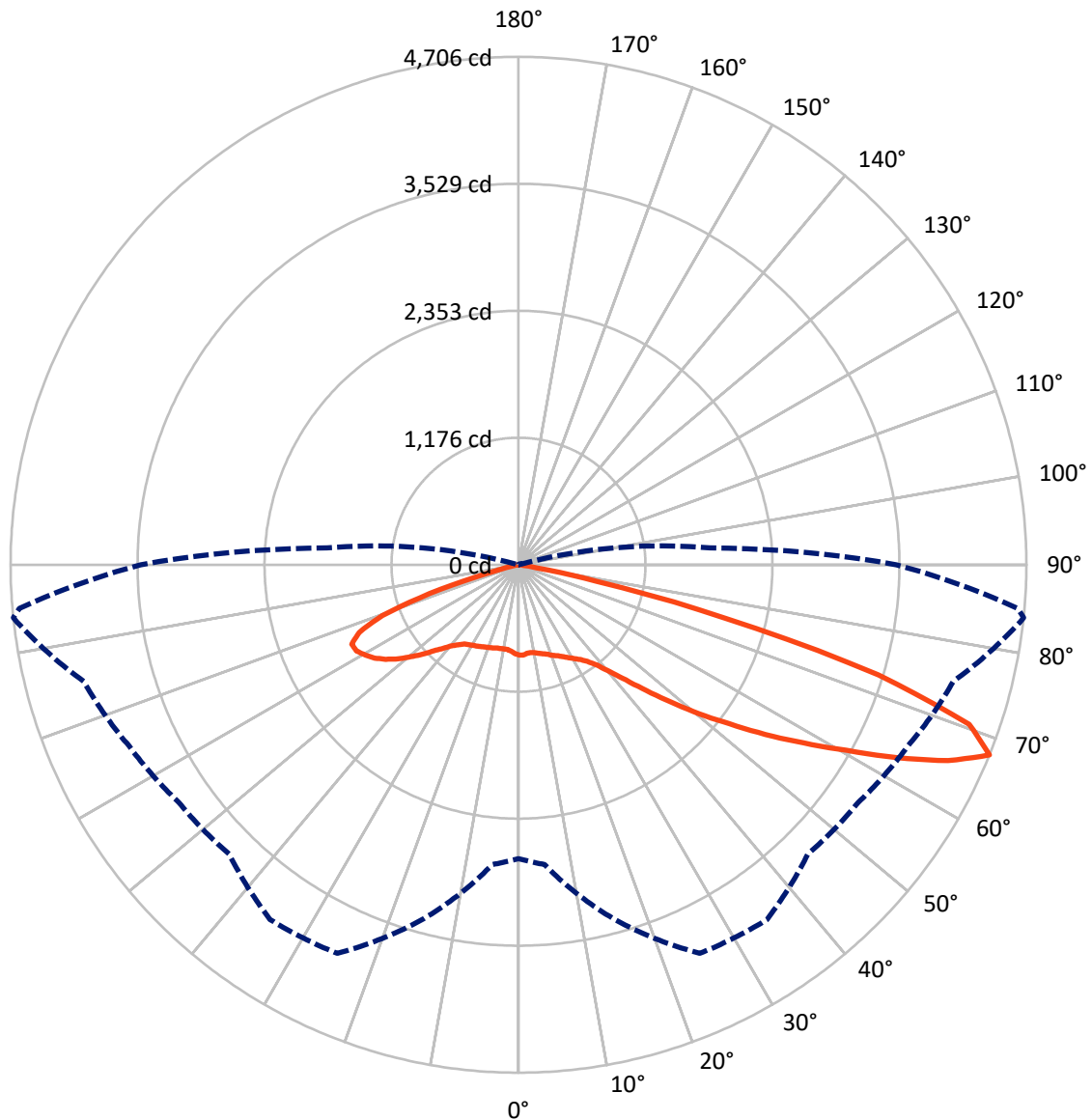
× Max cd
 - - - 1/2 Max cd



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

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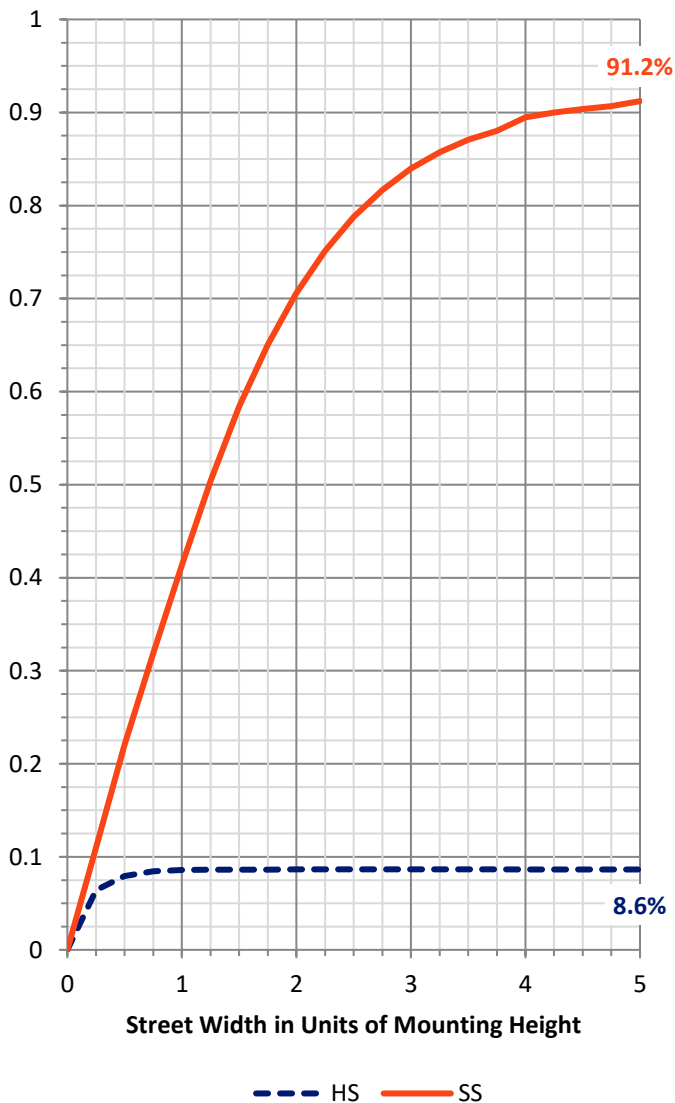
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.0	0.0	584.0
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	6123.1	0.0	6123.1
	% Fixture	91.3	0.0	91.3
Total	Lumens	6707.0	0.0	6707.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.1
10°-20°	196.0	2.9
20°-30°	313.9	4.7
30°-40°	451.7	6.7
40°-50°	775.3	11.6
50°-60°	1354.5	20.2
60°-70°	1939.7	28.9
70°-80°	1457.9	21.7
80°-90°	143.1	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°	6707.0	100.0
0°-180°	6707.0	100.0

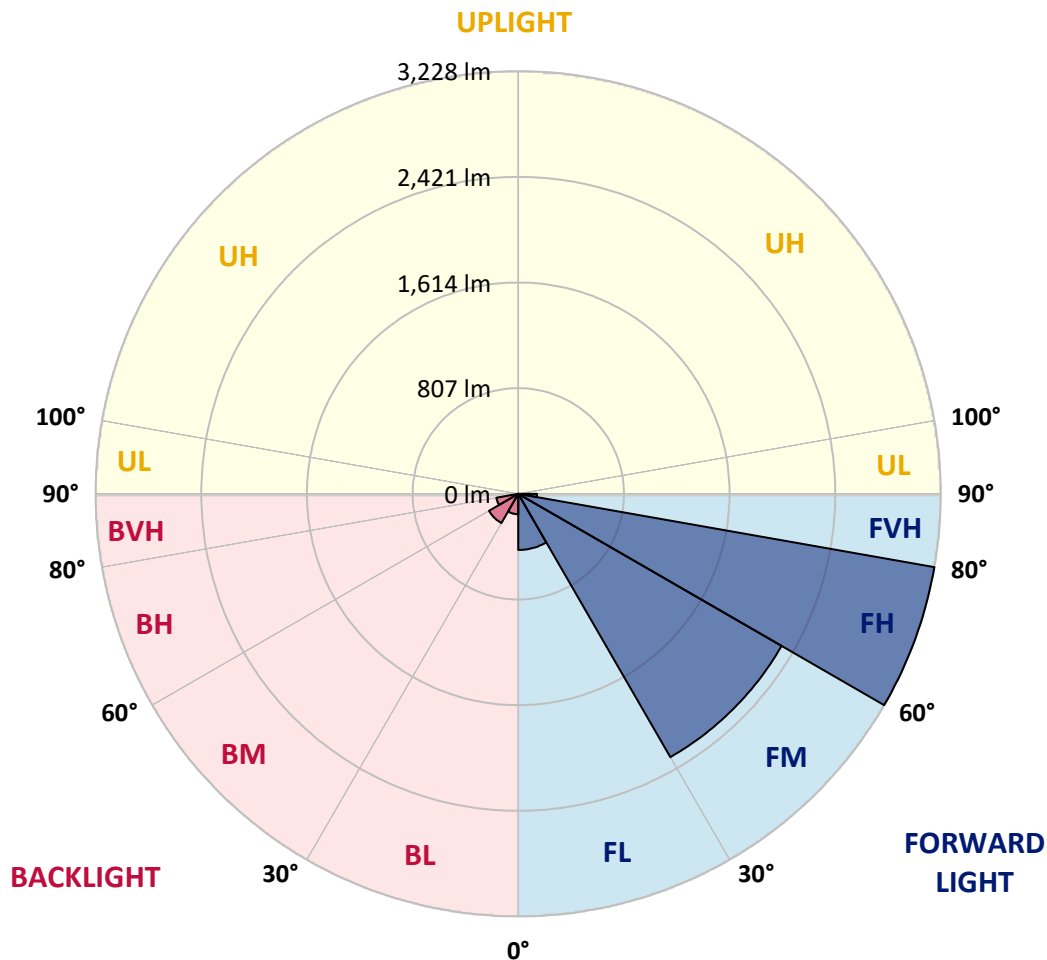


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.8	6.4			
FM (30°-60°)	2323.2	34.6			
FH (60°-80°)	3228.4	48.1			G2/5000
FVH (80°-90°)	142.6	2.1			G2/225
BL (0°-30°)	156.0	2.3	B1/500		
BM (30°-60°)	258.2	3.9	B1/1000		
BH (60°-80°)	169.3	2.5	B1/500		G1/500
BVH (80°-90°)	0.5	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6
2.5°	883.2	887.7	890.0	878.6	878.6	869.6	856.0	851.5	844.7	837.9	835.6
5°	928.5	935.3	933.0	919.4	912.6	894.5	876.4	858.3	840.1	824.3	824.3
7.5°	980.5	982.8	976.0	953.4	939.8	914.9	887.7	867.3	844.7	822.0	817.5
10°	1025.8	1023.6	1014.5	991.9	967.0	935.3	905.8	883.2	856.0	828.8	826.6
12.5°	1057.5	1059.8	1048.5	1016.8	991.9	955.6	926.2	903.5	871.8	842.4	835.6
15°	1084.7	1091.5	1077.9	1046.2	1010.0	978.3	955.6	926.2	890.0	856.0	851.5
17.5°	1109.6	1111.9	1100.6	1064.3	1030.4	1003.2	978.3	951.1	914.9	871.8	867.3
20°	1123.2	1130.0	1123.2	1077.9	1046.2	1025.8	1005.5	978.3	937.5	896.8	892.2
22.5°	1132.3	1139.1	1136.8	1087.0	1059.8	1043.9	1025.8	1000.9	962.4	914.9	910.3
25°	1136.8	1141.3	1145.9	1096.0	1073.4	1066.6	1050.7	1028.1	991.9	942.0	937.5
27.5°	1143.6	1148.1	1152.6	1107.4	1098.3	1091.5	1087.0	1068.9	1025.8	973.7	967.0
30°	1154.9	1161.7	1166.2	1127.7	1127.7	1134.5	1134.5	1109.6	1062.1	1007.7	1003.2
32.5°	1168.5	1170.8	1179.8	1148.1	1159.4	1175.3	1170.8	1145.9	1096.0	1046.2	1039.4
35°	1204.7	1204.7	1220.6	1179.8	1193.4	1207.0	1211.5	1193.4	1148.1	1098.3	1096.0
37.5°	1293.0	1293.0	1306.6	1241.0	1238.7	1252.3	1268.1	1268.1	1222.8	1177.6	1173.0
40°	1492.3	1492.3	1492.3	1340.6	1315.7	1331.5	1356.5	1370.0	1331.5	1299.8	1299.8
42.5°	1825.2	1827.5	1793.5	1524.0	1417.6	1444.8	1471.9	1501.4	1481.0	1458.4	1453.8
45°	2169.4	2158.1	2153.6	1793.5	1598.8	1585.2	1619.1	1669.0	1675.8	1662.2	1671.2
47.5°	2404.9	2416.3	2423.0	2128.7	1852.4	1759.5	1791.2	1861.4	1902.2	1899.9	1913.5
50°	2633.6	2640.4	2647.2	2497.8	2187.5	1979.2	1999.6	2094.7	2151.3	2169.4	2178.5
52.5°	2832.9	2814.8	2844.2	2823.9	2543.1	2230.6	2230.6	2339.3	2441.2	2448.0	2445.7
55°	2891.8	2903.1	2991.4	3052.6	2907.7	2538.5	2493.2	2608.7	2717.4	2774.0	2774.0
57.5°	3023.1	3034.5	3140.9	3279.0	3172.6	2842.0	2774.0	2887.3	3005.0	3113.7	3129.6
60°	3195.3	3197.5	3310.7	3521.3	3374.1	3116.0	3059.4	3188.5	3306.2	3491.9	3544.0
62.5°	3288.1	3297.2	3453.4	3729.7	3627.8	3356.0	3342.4	3460.2	3611.9	3938.0	3985.6
65°	3145.4	3204.3	3544.0	3854.2	3833.8	3580.2	3627.8	3722.9	3897.3	4375.1	4420.4
67.5°	2722.0	2787.6	3394.5	3972.0	4012.7	3790.8	3840.6	3978.8	4171.3	4705.7	4642.3
70°	2506.8	2561.2	3032.2	4037.7	4162.2	4026.3	4049.0	4178.1	4234.7	4429.4	4361.5
72.5°	1899.9	1956.6	2565.7	3813.5	4291.3	4273.2	4216.6	4110.1	3775.0	3485.1	3319.8
75°	840.1	905.8	1707.5	2980.1	3972.0	4413.6	4114.7	3519.1	2710.6	1979.2	1834.3
77.5°	371.4	409.9	661.2	1655.4	2984.6	3820.3	3254.1	2346.1	1361.0	736.0	683.9
80°	120.0	124.5	208.3	579.7	1526.3	2529.5	1992.8	1127.7	418.9	172.1	160.8
82.5°	47.6	52.1	99.6	244.6	631.8	1005.5	978.3	407.6	122.3	45.3	45.3
85°	13.6	15.9	49.8	129.1	224.2	283.1	346.5	135.9	65.7	13.6	13.6
87.5°	4.5	4.5	18.1	40.8	43.0	29.4	65.7	52.1	40.8	4.5	4.5
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°	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6
2.5°	831.1	826.6	815.2	806.2	801.6	794.8	785.8	781.3	781.3	779.0	772.2
5°	815.2	808.4	788.1	774.5	763.1	738.2	720.1	697.5	674.8	668.0	674.8
7.5°	808.4	794.8	767.7	740.5	692.9	627.3	584.2	536.7	520.8	500.5	502.7
10°	810.7	794.8	756.4	695.2	602.4	505.0	437.1	373.6	341.9	326.1	328.4
12.5°	817.5	799.4	745.0	634.1	500.5	382.7	278.5	228.7	219.7	219.7	219.7
15°	831.1	803.9	726.9	561.6	391.8	253.6	197.0	192.5	199.3	206.1	208.3
17.5°	844.7	817.5	699.7	486.9	285.3	190.2	183.4	183.4	190.2	197.0	199.3
20°	860.5	831.1	661.2	407.6	203.8	178.9	176.6	174.4	178.9	185.7	188.0
22.5°	885.4	844.7	616.0	314.8	176.6	172.1	167.6	165.3	167.6	174.4	176.6
25°	908.1	862.8	568.4	233.2	165.3	160.8	158.5	156.3	156.3	160.8	163.0
27.5°	935.3	883.2	516.3	174.4	151.7	149.5	147.2	144.9	142.7	147.2	149.5
30°	969.2	901.3	459.7	147.2	138.1	135.9	133.6	131.3	129.1	131.3	133.6
32.5°	1012.2	926.2	394.0	133.6	126.8	120.0	117.8	117.8	115.5	115.5	117.8
35°	1068.9	953.4	323.8	124.5	115.5	108.7	101.9	99.6	99.6	99.6	101.9
37.5°	1152.6	1003.2	255.9	115.5	106.4	95.1	88.3	81.5	81.5	81.5	81.5
40°	1268.1	1057.5	199.3	108.7	99.6	83.8	74.7	65.7	61.1	58.9	61.1
42.5°	1447.0	1139.1	154.0	99.6	95.1	74.7	61.1	49.8	40.8	38.5	40.8
45°	1644.0	1227.4	122.3	92.8	86.1	63.4	47.6	34.0	24.9	22.6	24.9
47.5°	1893.1	1338.3	104.2	83.8	74.7	52.1	34.0	18.1	11.3	13.6	13.6
50°	2133.2	1447.0	95.1	77.0	65.7	43.0	20.4	9.1	4.5	6.8	6.8
52.5°	2398.1	1562.5	88.3	67.9	56.6	31.7	11.3	2.3	0.0	2.3	2.3
55°	2665.4	1666.7	81.5	61.1	45.3	22.6	4.5	0.0	0.0	0.0	2.3
57.5°	2955.2	1755.0	74.7	52.1	34.0	13.6	2.3	0.0	0.0	0.0	0.0
60°	3197.5	1822.9	67.9	45.3	22.6	6.8	0.0	0.0	0.0	0.0	0.0
62.5°	3419.4	1884.1	52.1	34.0	13.6	4.5	0.0	0.0	0.0	0.0	0.0
65°	3566.6	1897.7	36.2	22.6	9.1	2.3	0.0	0.0	0.0	0.0	0.0
67.5°	3501.0	1779.9	22.6	15.9	4.5	2.3	0.0	0.0	0.0	0.0	0.0
70°	3077.5	1494.6	15.9	9.1	2.3	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	2153.6	964.7	13.6	6.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0
75°	1136.8	348.7	9.1	4.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	403.1	77.0	4.5	2.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0
80°	88.3	15.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	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)