

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: P595340

Luminaire Tested: **IST-PA1E-830-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595340
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-830-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 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: 5853 lumens
Efficiency: N/A
Efficacy: 71.8 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

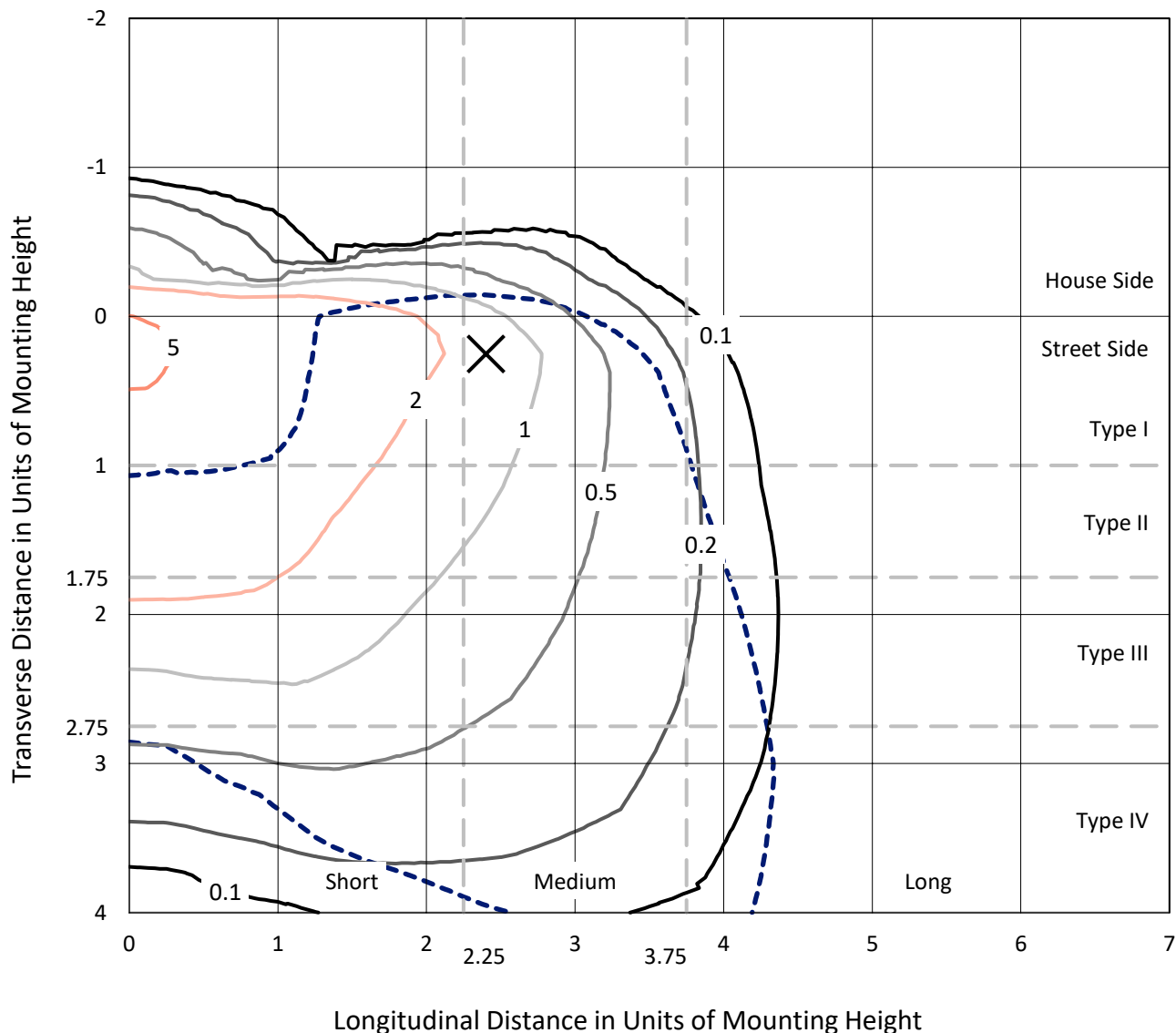
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

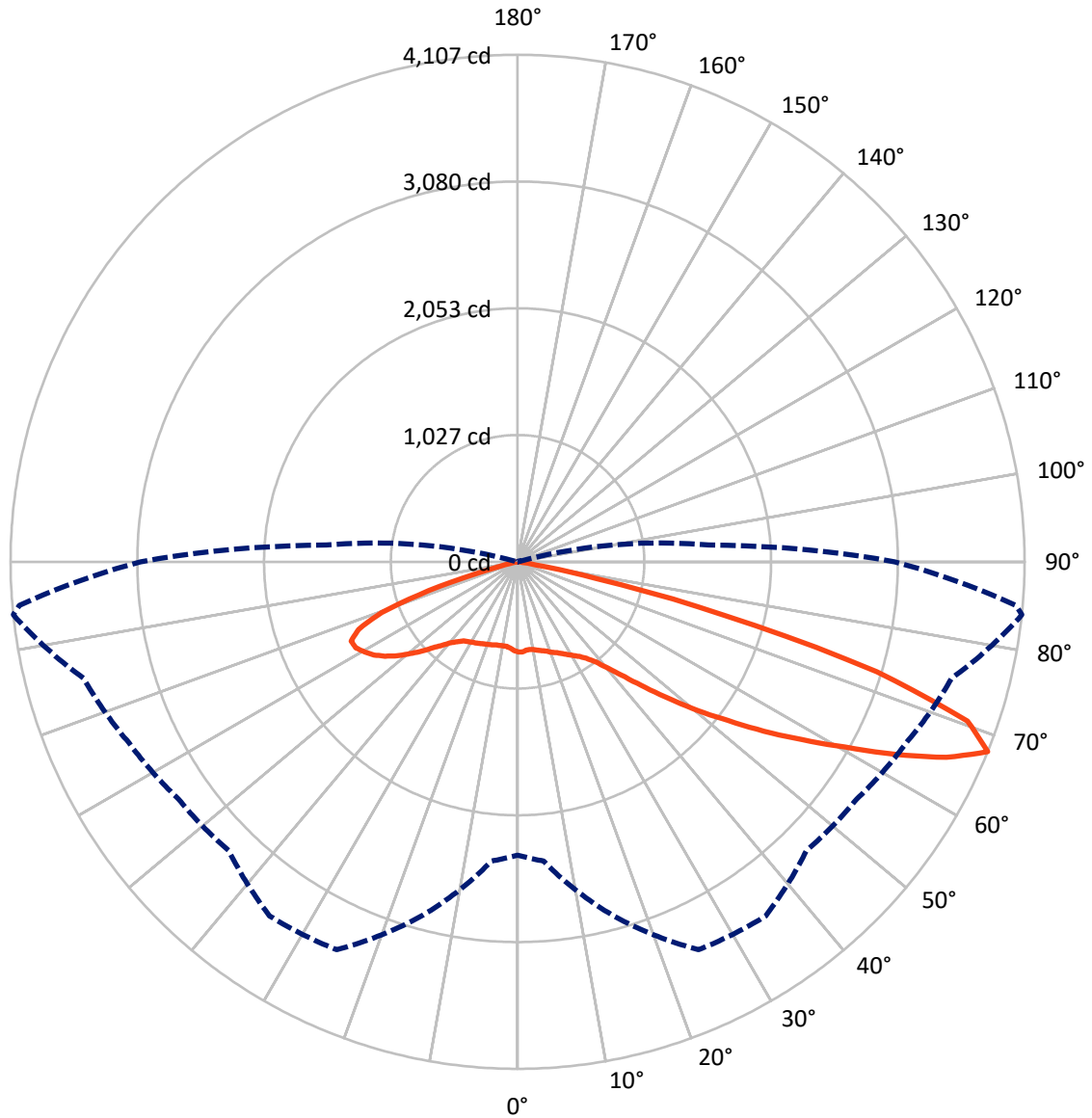
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.9 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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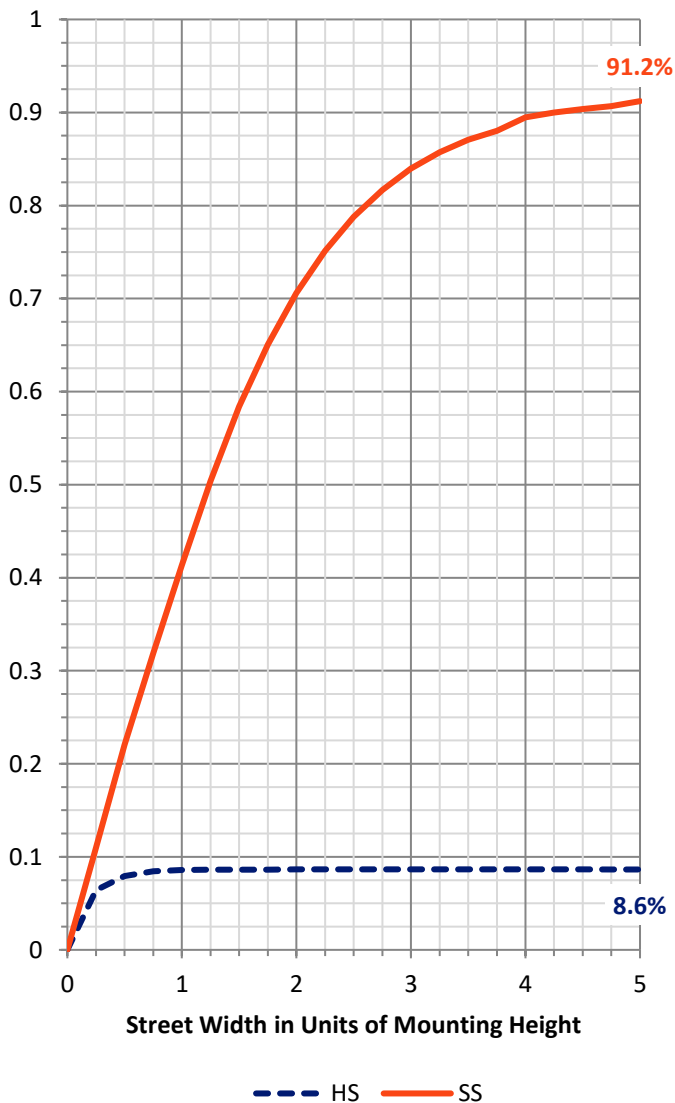
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	509.6	0.0	509.6
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	5343.4	0.0	5343.4
	% Fixture	91.3	0.0	91.3
Total	Lumens	5853.0	0.0	5853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	1.1
10°-20°	171.0	2.9
20°-30°	273.9	4.7
30°-40°	394.2	6.7
40°-50°	676.6	11.6
50°-60°	1182.1	20.2
60°-70°	1692.8	28.9
70°-80°	1272.3	21.7
80°-90°	124.9	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°	5853.0	100.0
0°-180°	5853.0	100.0

Coefficient of Utilization

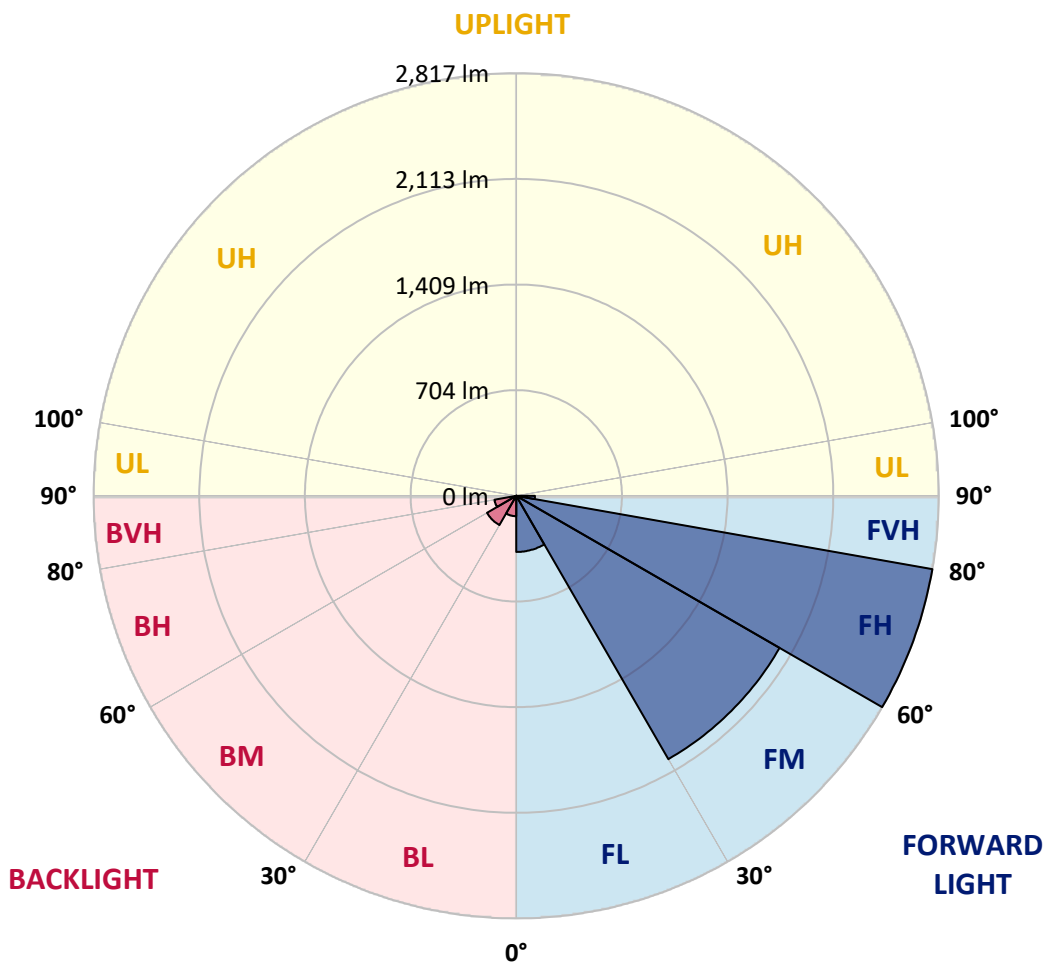


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.2	6.4			
FM (30°-60°)	2027.4	34.6			
FH (60°-80°)	2817.3	48.1			G2/5000
FVH (80°-90°)	124.5	2.1			G2/225
BL (0°-30°)	136.1	2.3	B1/500		
BM (30°-60°)	225.4	3.9	B1/1000		
BH (60°-80°)	147.8	2.5	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2
2.5°	770.7	774.7	776.6	766.8	766.8	758.9	747.0	743.0	737.1	731.2	729.2
5°	810.2	816.2	814.2	802.3	796.4	780.6	764.8	749.0	733.2	719.3	719.3
7.5°	855.7	857.7	851.7	832.0	820.1	798.4	774.7	756.9	737.1	717.4	713.4
10°	895.2	893.2	885.3	865.6	843.8	816.2	790.5	770.7	747.0	723.3	721.3
12.5°	922.9	924.9	915.0	887.3	865.6	834.0	808.3	788.5	760.8	735.1	729.2
15°	946.6	952.5	940.7	913.0	881.4	853.7	834.0	808.3	776.6	747.0	743.0
17.5°	968.3	970.3	960.4	928.8	899.2	875.5	853.7	830.0	798.4	760.8	756.9
20°	980.2	986.1	980.2	940.7	913.0	895.2	877.4	853.7	818.1	782.6	778.6
22.5°	988.1	994.0	992.0	948.6	924.9	911.0	895.2	873.5	839.9	798.4	794.4
25°	992.0	996.0	1000.0	956.5	936.7	930.8	917.0	897.2	865.6	822.1	818.1
27.5°	998.0	1001.9	1005.9	966.4	958.5	952.5	948.6	932.8	895.2	849.8	843.8
30°	1007.9	1013.8	1017.7	984.1	984.1	990.1	990.1	968.3	926.8	879.4	875.5
32.5°	1019.7	1021.7	1029.6	1001.9	1011.8	1025.6	1021.7	1000.0	956.5	913.0	907.1
35°	1051.3	1051.3	1065.2	1029.6	1041.5	1053.3	1057.3	1041.5	1001.9	958.5	956.5
37.5°	1128.4	1128.4	1140.3	1083.0	1081.0	1092.8	1106.7	1106.7	1067.1	1027.6	1023.7
40°	1302.3	1302.3	1302.3	1169.9	1148.2	1162.0	1183.7	1195.6	1162.0	1134.3	1134.3
42.5°	1592.8	1594.8	1565.1	1330.0	1237.1	1260.8	1284.5	1310.2	1292.4	1272.7	1268.7
45°	1893.2	1883.3	1879.4	1565.1	1395.2	1383.3	1413.0	1456.5	1462.4	1450.5	1458.4
47.5°	2098.7	2108.6	2114.5	1857.6	1616.5	1535.5	1563.2	1624.4	1660.0	1658.0	1669.9
50°	2298.3	2304.2	2310.2	2179.7	1909.0	1727.2	1745.0	1828.0	1877.4	1893.2	1901.1
52.5°	2472.2	2456.4	2482.1	2464.3	2219.3	1946.5	1946.5	2041.4	2130.3	2136.3	2134.3
55°	2523.6	2533.5	2610.5	2663.9	2537.4	2215.3	2175.8	2276.6	2371.4	2420.8	2420.8
57.5°	2638.2	2648.1	2741.0	2861.5	2768.6	2480.1	2420.8	2519.6	2622.4	2717.3	2731.1
60°	2788.4	2790.4	2889.2	3073.0	2944.5	2719.2	2669.8	2782.5	2885.2	3047.3	3092.7
62.5°	2869.4	2877.3	3013.7	3254.8	3165.9	2928.7	2916.9	3019.6	3152.0	3436.6	3478.1
65°	2744.9	2796.3	3092.7	3363.5	3345.7	3124.4	3165.9	3248.9	3401.0	3818.0	3857.5
67.5°	2375.4	2432.7	2962.3	3466.2	3501.8	3308.1	3351.6	3472.2	3640.1	4106.5	4051.2
70°	2187.6	2235.1	2646.1	3523.5	3632.2	3513.7	3533.4	3646.1	3695.5	3865.4	3806.1
72.5°	1658.0	1707.4	2239.0	3327.9	3744.9	3729.1	3679.7	3586.8	3294.3	3041.4	2897.1
75°	733.2	790.5	1490.0	2600.7	3466.2	3851.6	3590.7	3071.0	2365.5	1727.2	1600.7
77.5°	324.1	357.7	577.0	1444.6	2604.6	3333.8	2839.8	2047.3	1187.7	642.3	596.8
80°	104.7	108.7	181.8	505.9	1332.0	2207.4	1739.0	984.1	365.6	150.2	140.3
82.5°	41.5	45.5	87.0	213.4	551.4	877.4	853.7	355.7	106.7	39.5	39.5
85°	11.9	13.8	43.5	112.6	195.6	247.0	302.4	118.6	57.3	11.9	11.9
87.5°	4.0	4.0	15.8	35.6	37.5	25.7	57.3	45.5	35.6	4.0	4.0
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°	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2	729.2
2.5°	725.3	721.3	711.4	703.5	699.6	693.6	685.7	681.8	681.8	679.8	673.9
5°	711.4	705.5	687.7	675.9	666.0	644.2	628.4	608.7	588.9	583.0	588.9
7.5°	705.5	693.6	669.9	646.2	604.7	547.4	509.9	468.4	454.5	436.7	438.7
10°	707.5	693.6	660.0	606.7	525.7	440.7	381.4	326.1	298.4	284.6	286.5
12.5°	713.4	697.6	650.2	553.3	436.7	334.0	243.1	199.6	191.7	191.7	191.7
15°	725.3	701.5	634.4	490.1	341.9	221.3	171.9	168.0	173.9	179.8	181.8
17.5°	737.1	713.4	610.6	424.9	249.0	166.0	160.1	160.1	166.0	171.9	173.9
20°	751.0	725.3	577.0	355.7	177.9	156.1	154.1	152.2	156.1	162.0	164.0
22.5°	772.7	737.1	537.5	274.7	154.1	150.2	146.2	144.3	146.2	152.2	154.1
25°	792.5	752.9	496.0	203.5	144.3	140.3	138.3	136.4	136.4	140.3	142.3
27.5°	816.2	770.7	450.6	152.2	132.4	130.4	128.5	126.5	124.5	128.5	130.4
30°	845.8	786.5	401.2	128.5	120.5	118.6	116.6	114.6	112.6	114.6	116.6
32.5°	883.4	808.3	343.9	116.6	110.7	104.7	102.8	102.8	100.8	100.8	102.8
35°	932.8	832.0	282.6	108.7	100.8	94.9	88.9	87.0	87.0	87.0	88.9
37.5°	1005.9	875.5	223.3	100.8	92.9	83.0	77.1	71.1	71.1	71.1	71.1
40°	1106.7	922.9	173.9	94.9	87.0	73.1	65.2	57.3	53.4	51.4	53.4
42.5°	1262.8	994.0	134.4	87.0	83.0	65.2	53.4	43.5	35.6	33.6	35.6
45°	1434.7	1071.1	106.7	81.0	75.1	55.3	41.5	29.6	21.7	19.8	21.7
47.5°	1652.1	1167.9	90.9	73.1	65.2	45.5	29.6	15.8	9.9	11.9	11.9
50°	1861.6	1262.8	83.0	67.2	57.3	37.5	17.8	7.9	4.0	5.9	5.9
52.5°	2092.8	1363.6	77.1	59.3	49.4	27.7	9.9	2.0	0.0	2.0	2.0
55°	2326.0	1454.5	71.1	53.4	39.5	19.8	4.0	0.0	0.0	0.0	2.0
57.5°	2578.9	1531.5	65.2	45.5	29.6	11.9	2.0	0.0	0.0	0.0	0.0
60°	2790.4	1590.8	59.3	39.5	19.8	5.9	0.0	0.0	0.0	0.0	0.0
62.5°	2984.0	1644.2	45.5	29.6	11.9	4.0	0.0	0.0	0.0	0.0	0.0
65°	3112.5	1656.0	31.6	19.8	7.9	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	3055.2	1553.3	19.8	13.8	4.0	2.0	0.0	0.0	0.0	0.0	0.0
70°	2685.6	1304.3	13.8	7.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1879.4	841.9	11.9	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	992.0	304.3	7.9	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	351.8	67.2	4.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	77.1	13.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)