

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: P595214

Luminaire Tested: **IST-PA1D-735-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595214
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-PA1D-735-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 5570 lumens
Efficiency: N/A
Efficacy: 89.3 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

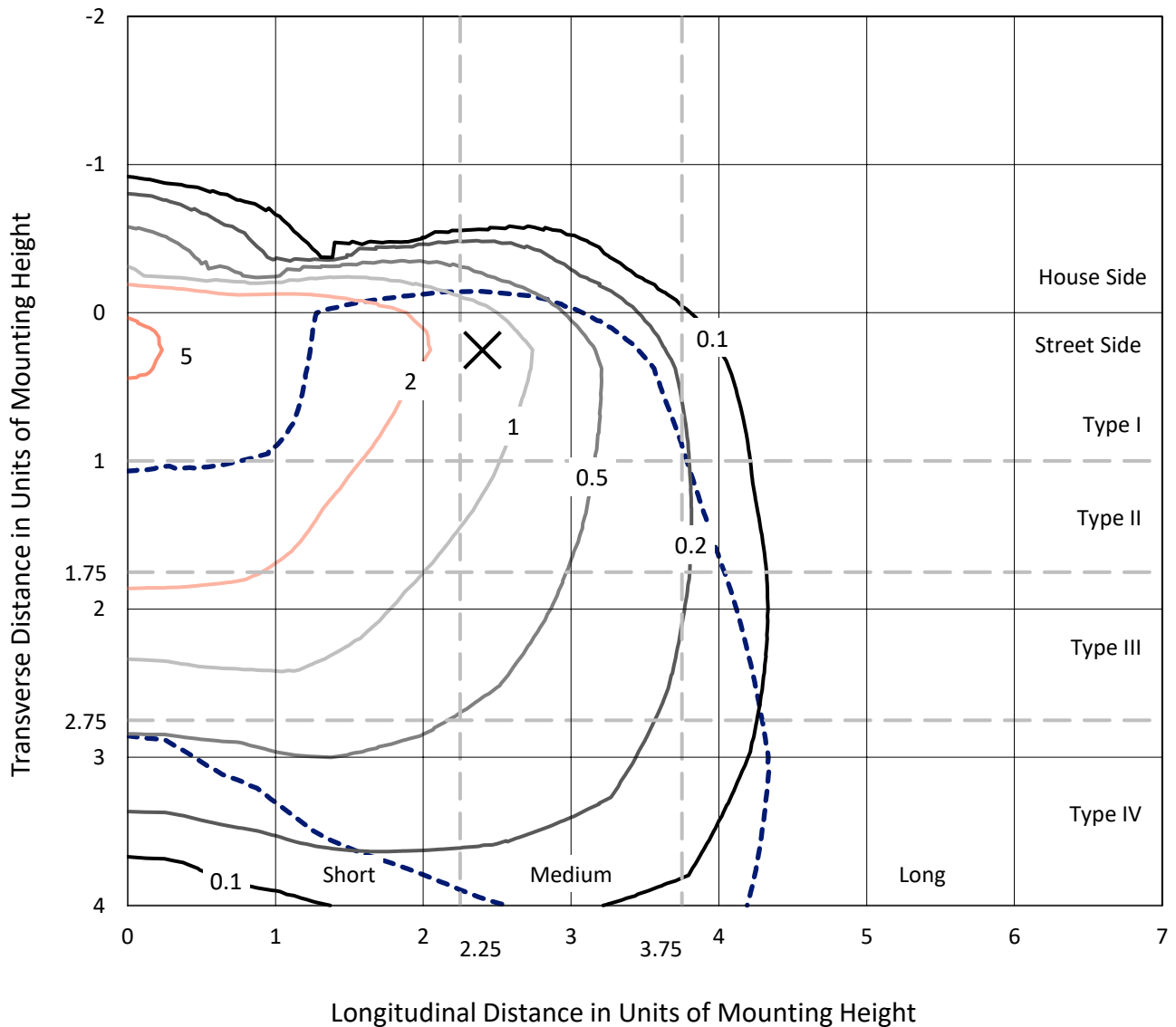
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

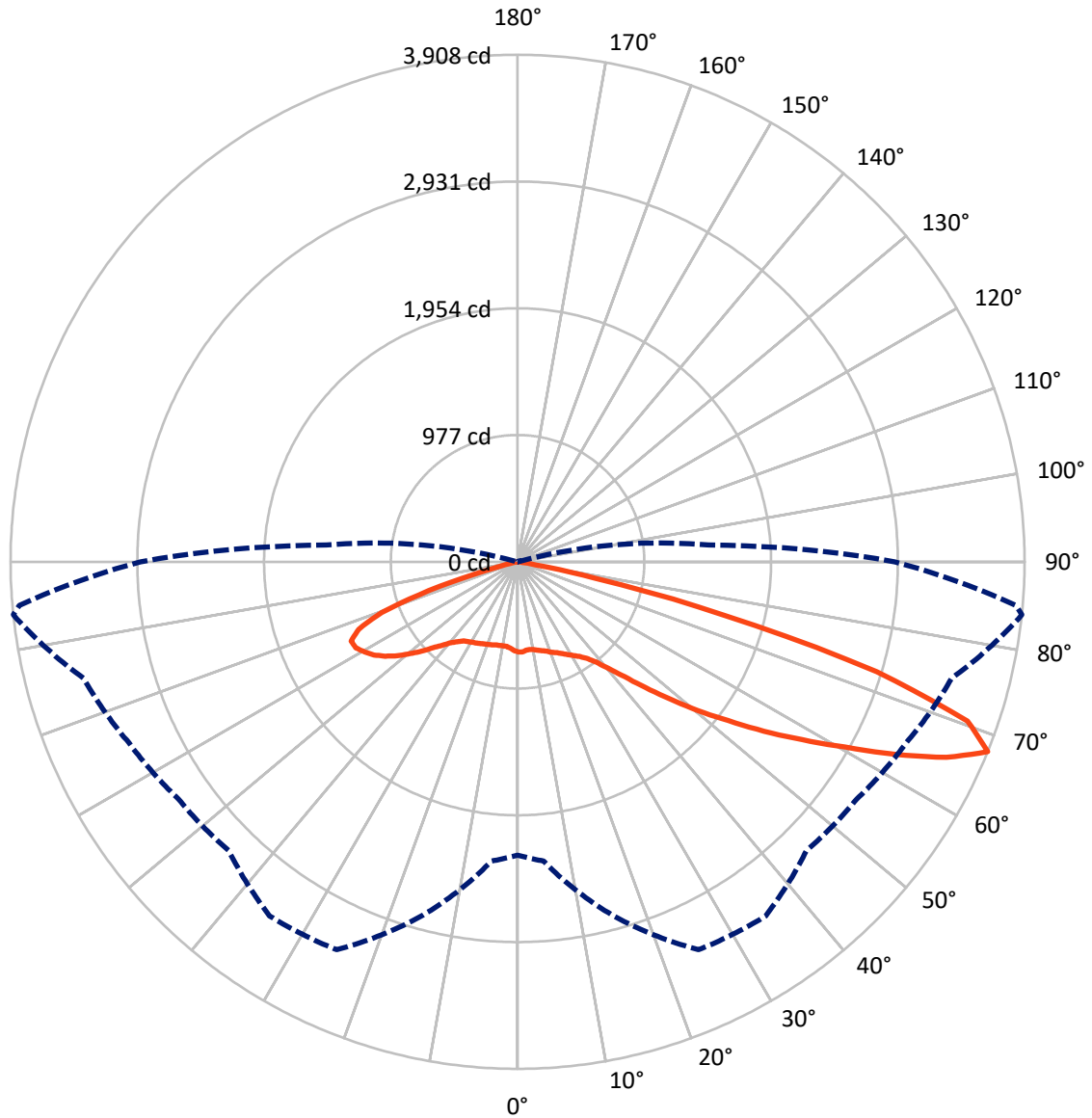
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.7 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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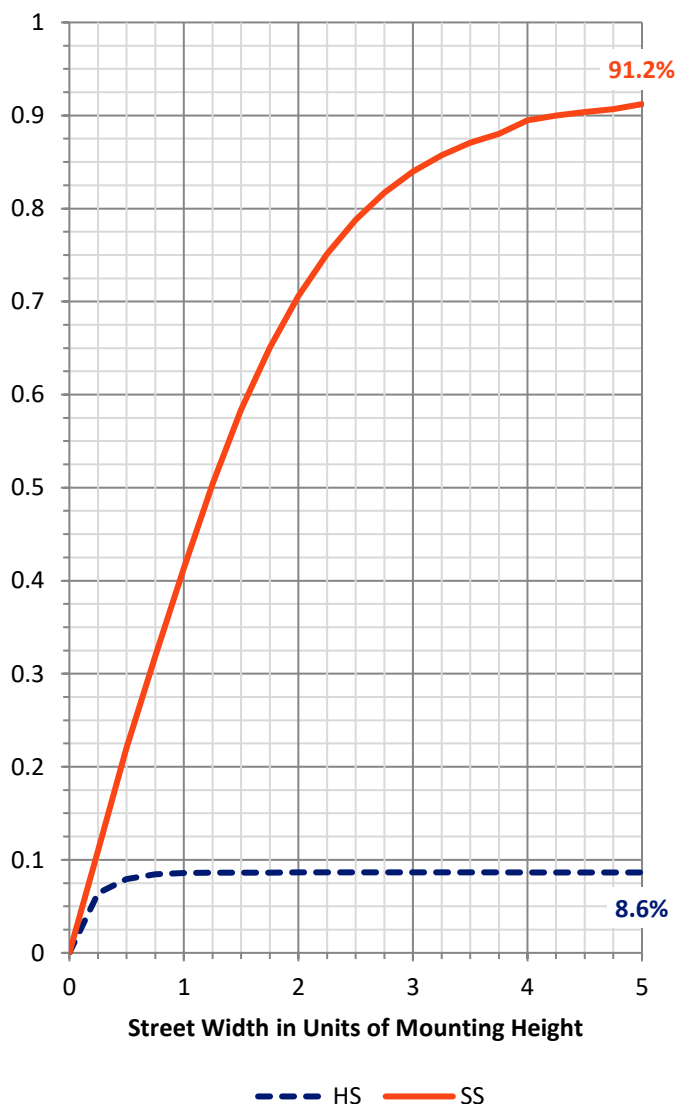
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.0	0.0	485.0
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	5085.0	0.0	5085.0
	% Fixture	91.3	0.0	91.3
Total	Lumens	5570.0	0.0	5570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	1.1
10°-20°	162.8	2.9
20°-30°	260.7	4.7
30°-40°	375.1	6.7
40°-50°	643.9	11.6
50°-60°	1124.9	20.2
60°-70°	1610.9	28.9
70°-80°	1210.8	21.7
80°-90°	118.8	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°	5570.0	100.0
0°-180°	5570.0	100.0

Coefficient of Utilization

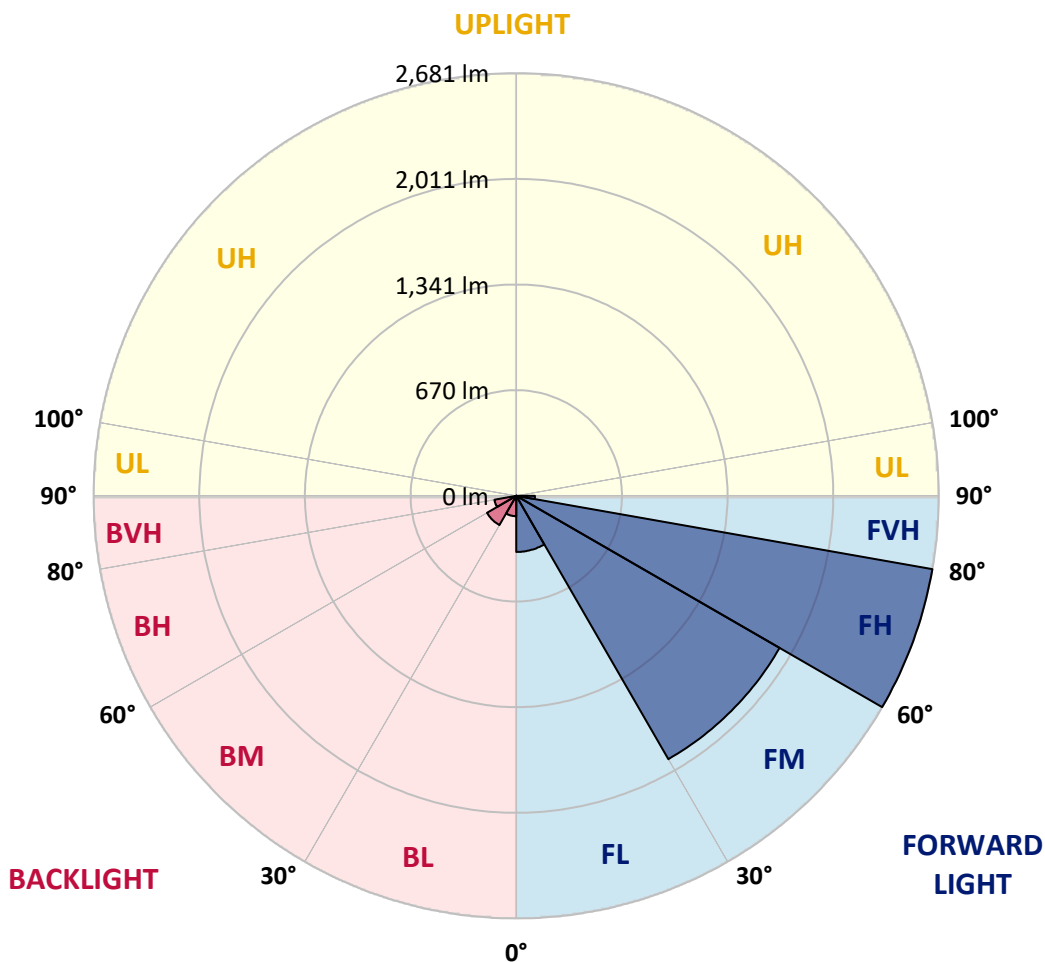


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.1	6.4			
FM (30°-60°)	1929.4	34.6			
FH (60°-80°)	2681.1	48.1			G2/5000
FVH (80°-90°)	118.5	2.1			G2/225
BL (0°-30°)	129.5	2.3	B1/500		
BM (30°-60°)	214.5	3.9	B0/220		
BH (60°-80°)	140.6	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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
2.5°	733.4	737.2	739.1	729.7	729.7	722.2	710.9	707.1	701.5	695.8	694.0
5°	771.1	776.7	774.8	763.5	757.9	742.9	727.8	712.8	697.7	684.6	684.6
7.5°	814.3	816.2	810.6	791.7	780.5	759.8	737.2	720.3	701.5	682.7	678.9
10°	851.9	850.0	842.5	823.7	803.0	776.7	752.3	733.4	710.9	688.3	686.4
12.5°	878.3	880.1	870.7	844.4	823.7	793.6	769.2	750.4	724.0	699.6	694.0
15°	900.8	906.5	895.2	868.9	838.8	812.4	793.6	769.2	739.1	710.9	707.1
17.5°	921.5	923.4	914.0	883.9	855.7	833.1	812.4	789.9	759.8	724.0	720.3
20°	932.8	938.4	932.8	895.2	868.9	851.9	835.0	812.4	778.6	744.7	741.0
22.5°	940.3	946.0	944.1	902.7	880.1	867.0	851.9	831.2	799.3	759.8	756.0
25°	944.1	947.8	951.6	910.2	891.4	885.8	872.6	853.8	823.7	782.3	778.6
27.5°	949.7	953.5	957.2	919.6	912.1	906.5	902.7	887.7	851.9	808.7	803.0
30°	959.1	964.8	968.5	936.6	936.6	942.2	942.2	921.5	882.0	836.9	833.1
32.5°	970.4	972.3	979.8	953.5	962.9	976.1	972.3	951.6	910.2	868.9	863.2
35°	1000.5	1000.5	1013.7	979.8	991.1	1002.4	1006.1	991.1	953.5	912.1	910.2
37.5°	1073.8	1073.8	1085.1	1030.6	1028.7	1040.0	1053.2	1053.2	1015.5	977.9	974.2
40°	1239.3	1239.3	1239.3	1113.3	1092.6	1105.8	1126.5	1137.8	1105.8	1079.5	1079.5
42.5°	1515.8	1517.7	1489.5	1265.7	1177.3	1199.8	1222.4	1246.9	1229.9	1211.1	1207.4
45°	1801.6	1792.2	1788.5	1489.5	1327.7	1316.4	1344.7	1386.0	1391.7	1380.4	1387.9
47.5°	1997.2	2006.6	2012.3	1767.8	1538.4	1461.3	1487.6	1545.9	1579.7	1577.9	1589.1
50°	2187.2	2192.8	2198.5	2074.3	1816.7	1643.7	1660.6	1739.6	1786.6	1801.6	1809.2
52.5°	2352.7	2337.6	2362.1	2345.2	2112.0	1852.4	1852.4	1942.7	2027.3	2033.0	2031.1
55°	2401.6	2411.0	2484.3	2535.1	2414.7	2108.2	2070.6	2166.5	2256.8	2303.8	2303.8
57.5°	2510.6	2520.1	2608.4	2723.2	2634.8	2360.2	2303.8	2397.8	2495.6	2585.9	2599.0
60°	2653.6	2655.5	2749.5	2924.4	2802.1	2587.8	2540.7	2647.9	2745.7	2899.9	2943.2
62.5°	2730.7	2738.2	2868.0	3097.4	3012.8	2787.1	2775.8	2873.6	2999.6	3270.4	3309.9
65°	2612.2	2661.1	2943.2	3200.8	3183.9	2973.3	3012.8	3091.8	3236.6	3633.4	3671.0
67.5°	2260.5	2315.1	2819.1	3298.6	3332.5	3148.2	3189.6	3304.3	3464.1	3908.0	3855.3
70°	2081.9	2127.0	2518.2	3353.2	3456.6	3343.8	3362.6	3469.8	3516.8	3678.5	3622.1
72.5°	1577.9	1624.9	2130.8	3167.0	3563.8	3548.8	3501.7	3413.4	3135.0	2894.3	2757.0
75°	697.7	752.3	1418.0	2474.9	3298.6	3665.4	3417.1	2922.5	2251.1	1643.7	1523.3
77.5°	308.4	340.4	549.1	1374.7	2478.7	3172.6	2702.5	1948.3	1130.3	611.2	568.0
80°	99.7	103.4	173.0	481.4	1267.5	2100.7	1655.0	936.6	347.9	142.9	133.5
82.5°	39.5	43.3	82.7	203.1	524.7	835.0	812.4	338.5	101.6	37.6	37.6
85°	11.3	13.2	41.4	107.2	186.2	235.1	287.7	112.8	54.5	11.3	11.3
87.5°	3.8	3.8	15.0	33.9	35.7	24.4	54.5	43.3	33.9	3.8	3.8
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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
2.5°	690.2	686.4	677.0	669.5	665.7	660.1	652.6	648.8	648.8	646.9	641.3
5°	677.0	671.4	654.5	643.2	633.8	613.1	598.0	579.2	560.4	554.8	560.4
7.5°	671.4	660.1	637.5	615.0	575.5	520.9	485.2	445.7	432.5	415.6	417.5
10°	673.3	660.1	628.1	577.4	500.2	419.4	363.0	310.3	284.0	270.8	272.7
12.5°	678.9	663.9	618.7	526.6	415.6	317.8	231.3	189.9	182.4	182.4	182.4
15°	690.2	667.6	603.7	466.4	325.4	210.6	163.6	159.9	165.5	171.1	173.0
17.5°	701.5	678.9	581.1	404.3	237.0	158.0	152.3	152.3	158.0	163.6	165.5
20°	714.6	690.2	549.1	338.5	169.3	148.6	146.7	144.8	148.6	154.2	156.1
22.5°	735.3	701.5	511.5	261.4	146.7	142.9	139.2	137.3	139.2	144.8	146.7
25°	754.1	716.5	472.0	193.7	137.3	133.5	131.6	129.8	129.8	133.5	135.4
27.5°	776.7	733.4	428.8	144.8	126.0	124.1	122.2	120.4	118.5	122.2	124.1
30°	804.9	748.5	381.8	122.2	114.7	112.8	111.0	109.1	107.2	109.1	111.0
32.5°	840.6	769.2	327.2	111.0	105.3	99.7	97.8	97.8	95.9	95.9	97.8
35°	887.7	791.7	268.9	103.4	95.9	90.3	84.6	82.7	82.7	82.7	84.6
37.5°	957.2	833.1	212.5	95.9	88.4	79.0	73.3	67.7	67.7	67.7	67.7
40°	1053.2	878.3	165.5	90.3	82.7	69.6	62.1	54.5	50.8	48.9	50.8
42.5°	1201.7	946.0	127.9	82.7	79.0	62.1	50.8	41.4	33.9	32.0	33.9
45°	1365.3	1019.3	101.6	77.1	71.5	52.7	39.5	28.2	20.7	18.8	20.7
47.5°	1572.2	1111.5	86.5	69.6	62.1	43.3	28.2	15.0	9.4	11.3	11.3
50°	1771.6	1201.7	79.0	63.9	54.5	35.7	16.9	7.5	3.8	5.6	5.6
52.5°	1991.6	1297.6	73.3	56.4	47.0	26.3	9.4	1.9	0.0	1.9	1.9
55°	2213.5	1384.1	67.7	50.8	37.6	18.8	3.8	0.0	0.0	0.0	1.9
57.5°	2454.2	1457.5	62.1	43.3	28.2	11.3	1.9	0.0	0.0	0.0	0.0
60°	2655.5	1513.9	56.4	37.6	18.8	5.6	0.0	0.0	0.0	0.0	0.0
62.5°	2839.8	1564.7	43.3	28.2	11.3	3.8	0.0	0.0	0.0	0.0	0.0
65°	2962.0	1576.0	30.1	18.8	7.5	1.9	0.0	0.0	0.0	0.0	0.0
67.5°	2907.5	1478.2	18.8	13.2	3.8	1.9	0.0	0.0	0.0	0.0	0.0
70°	2555.8	1241.2	13.2	7.5	1.9	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	1788.5	801.2	11.3	5.6	1.9	1.9	0.0	0.0	0.0	0.0	0.0
75°	944.1	289.6	7.5	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	334.8	63.9	3.8	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0
80°	73.3	13.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)