

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: P595410

Luminaire Tested: **IST-PA1F-827-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-827-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6025 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

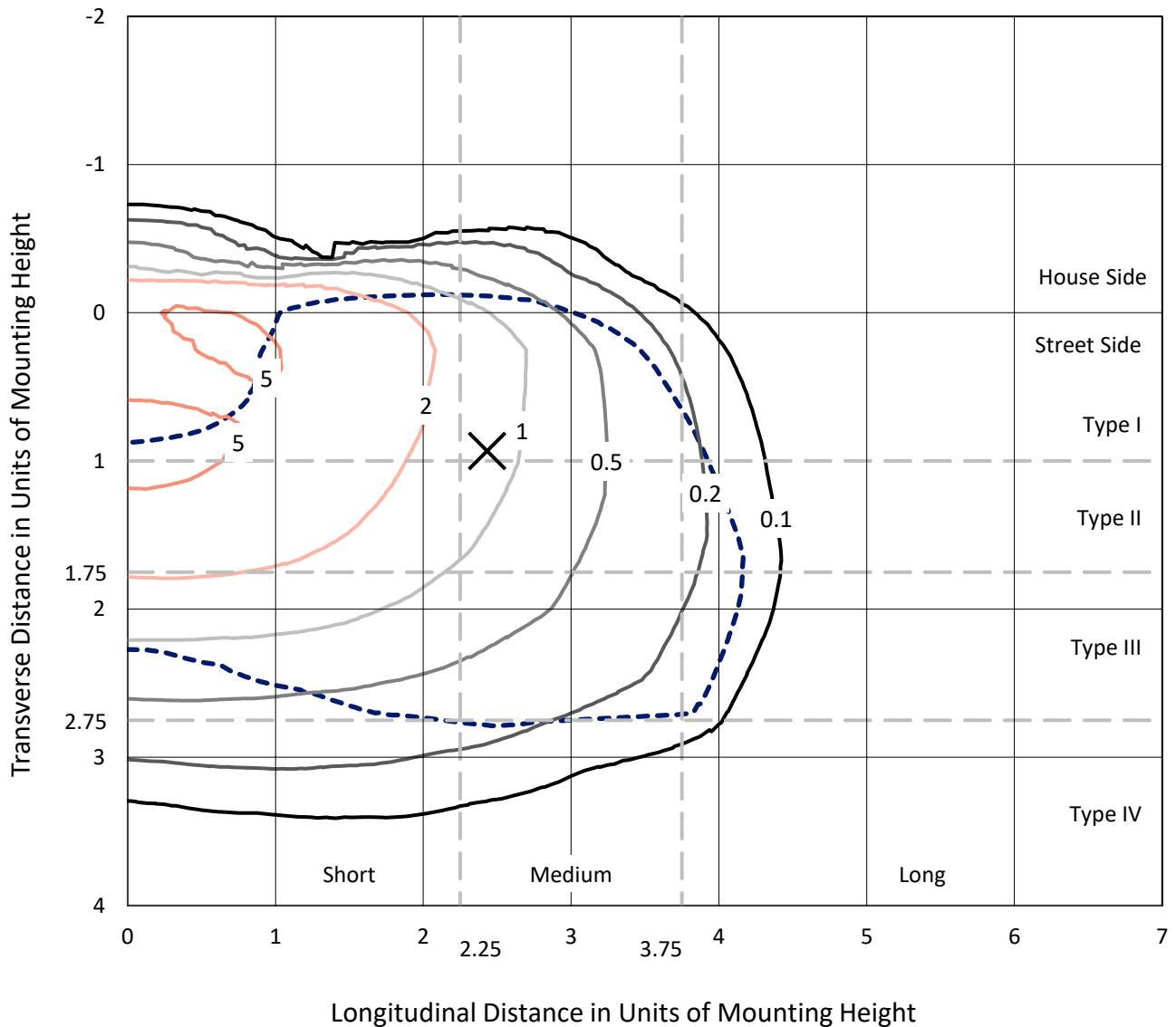
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

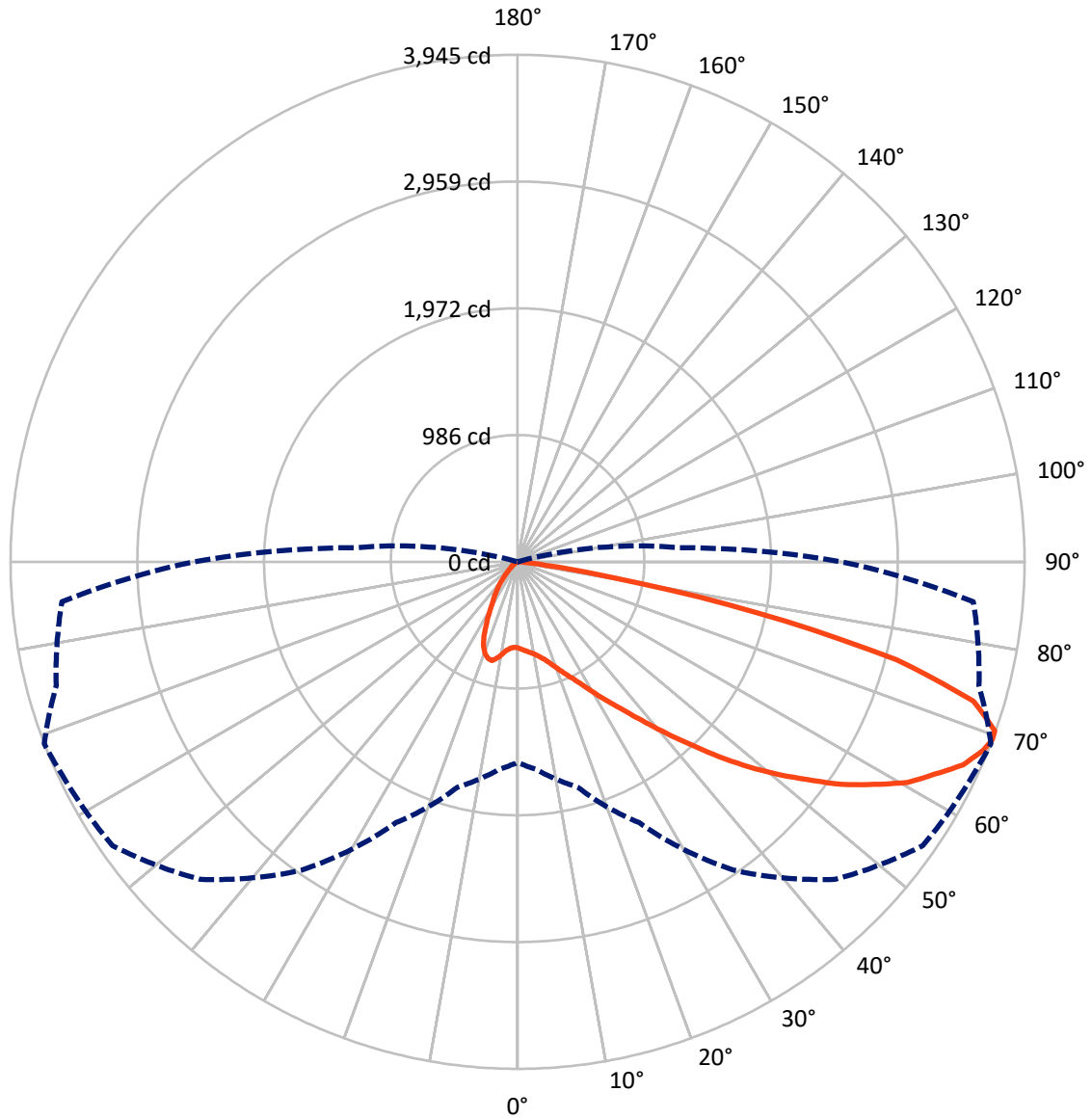
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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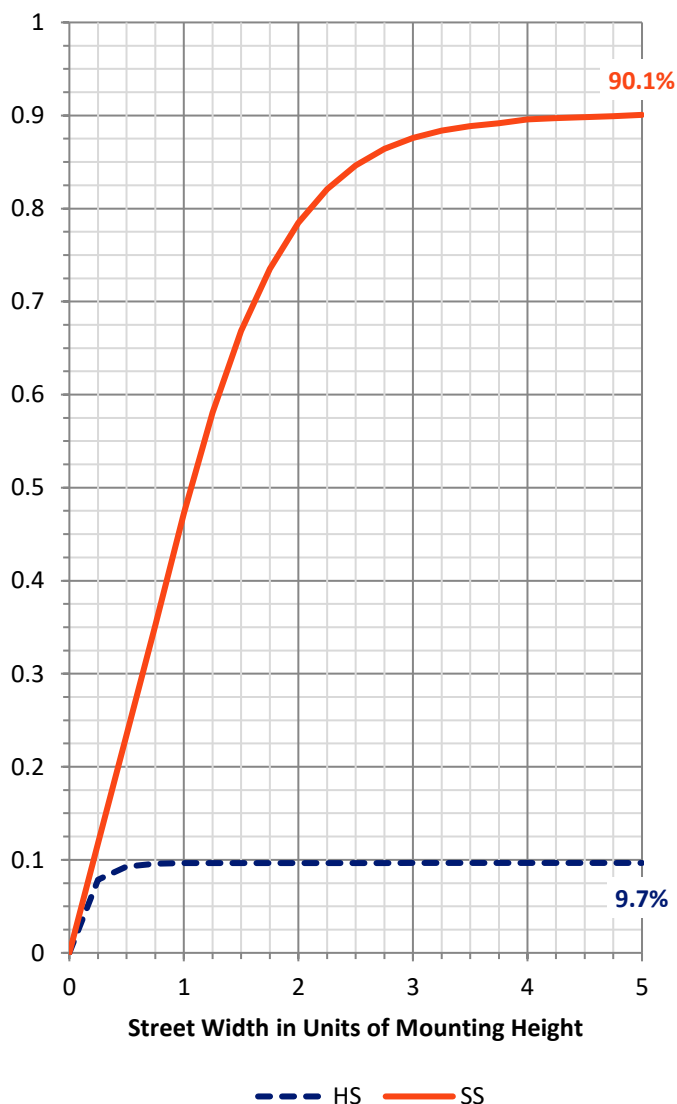
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	587.1	0.0	587.1
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5437.9	0.0	5437.9
	% Fixture	90.3	0.0	90.3
Total	Lumens	6025.0	0.0	6025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.1
10°-20°	169.1	2.8
20°-30°	281.5	4.7
30°-40°	506.8	8.4
40°-50°	918.9	15.3
50°-60°	1436.1	23.8
60°-70°	1661.5	27.6
70°-80°	929.2	15.4
80°-90°	58.0	1.0
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°	6025.0	100.0
0°-180°	6025.0	100.0

Coefficient of Utilization

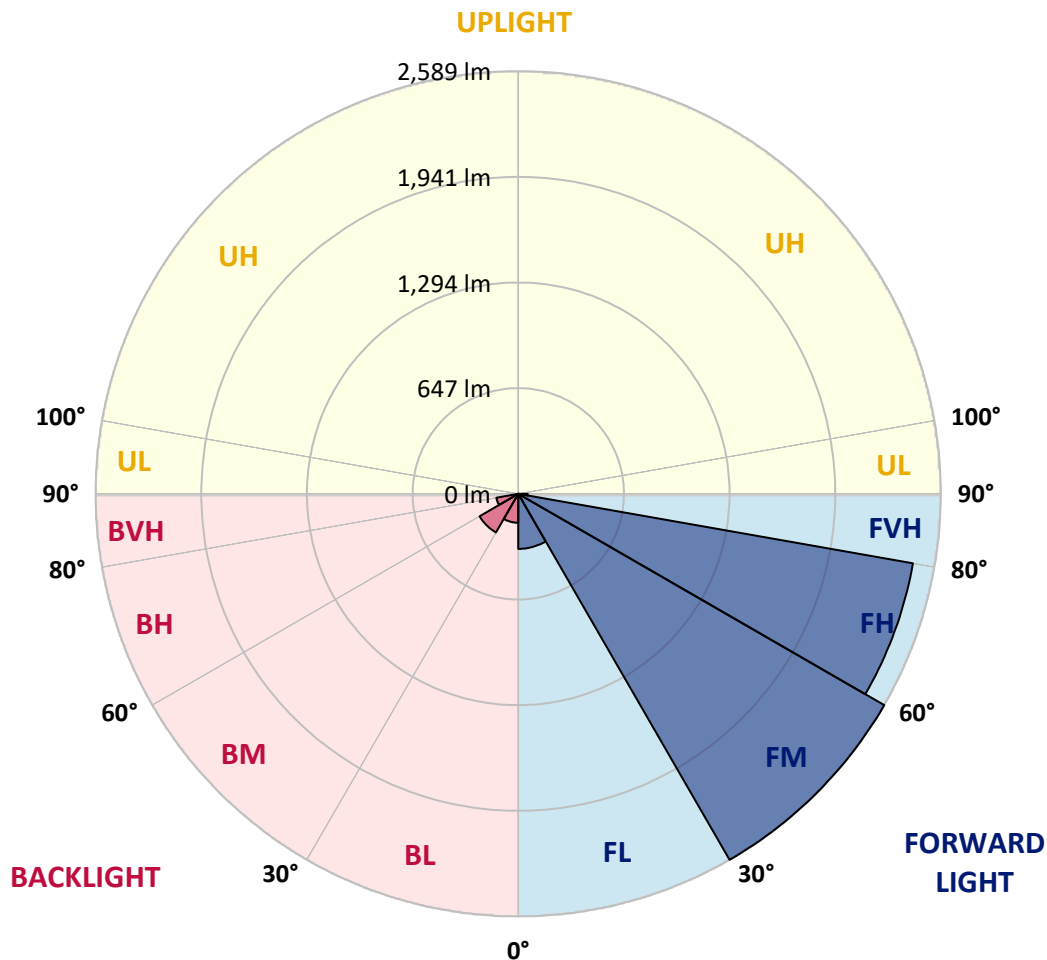


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.1	5.6			
FM (30°-60°)	2588.5	43.0			
FH (60°-80°)	2454.7	40.7			G2/5000
FVH (80°-90°)	57.6	1.0			G1/100
BL (0°-30°)	177.4	2.9	B1/500		
BM (30°-60°)	273.3	4.5	B1/1000		
BH (60°-80°)	135.9	2.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	694.3	694.3	694.3	690.2	692.3	690.2	688.2	682.2	684.2	682.2	676.2
5°	670.2	672.2	678.2	682.2	692.3	696.3	698.3	698.3	696.3	692.3	688.2
7.5°	624.0	624.0	630.1	642.1	662.2	684.2	702.3	712.3	714.3	714.3	708.3
10°	612.0	612.0	620.0	628.0	648.1	674.2	702.3	726.4	730.4	734.4	732.4
12.5°	606.0	608.0	616.0	630.1	656.1	680.2	710.3	744.4	756.5	766.5	768.5
15°	614.0	614.0	622.0	636.1	666.2	700.3	738.4	776.5	788.6	802.6	812.6
17.5°	626.0	630.1	634.1	648.1	676.2	718.3	768.5	818.7	832.7	850.8	858.8
20°	646.1	646.1	650.1	662.2	692.3	742.4	812.6	872.8	884.9	896.9	907.0
22.5°	670.2	672.2	672.2	682.2	716.3	770.5	850.8	925.0	945.1	951.1	955.1
25°	742.4	738.4	724.4	718.3	744.4	802.6	896.9	987.2	1009.3	1015.3	1007.3
27.5°	892.9	876.9	838.7	798.6	794.6	852.8	959.1	1065.5	1089.6	1091.6	1063.5
30°	1081.5	1083.5	1021.3	935.0	876.9	907.0	1027.3	1163.8	1187.9	1177.8	1133.7
32.5°	1314.3	1304.3	1258.1	1133.7	1017.3	991.2	1101.6	1266.1	1294.2	1278.2	1220.0
35°	1512.9	1519.0	1462.8	1352.4	1205.9	1121.7	1191.9	1380.5	1414.6	1386.5	1314.3
37.5°	1679.5	1687.5	1653.4	1563.1	1432.7	1300.2	1310.3	1514.9	1561.1	1533.0	1442.7
40°	1864.1	1870.1	1856.0	1757.7	1641.3	1512.9	1468.8	1669.4	1731.6	1693.5	1599.2
42.5°	2066.7	2088.8	2064.7	1986.5	1866.1	1755.7	1689.5	1858.1	1920.3	1896.2	1769.8
45°	2343.6	2345.6	2317.6	2239.3	2114.9	2024.6	1944.3	2058.7	2139.0	2108.9	1960.4
47.5°	2548.3	2562.4	2546.3	2492.1	2391.8	2331.6	2221.2	2279.4	2363.7	2325.6	2157.0
50°	2704.8	2742.9	2728.9	2744.9	2694.8	2668.7	2500.1	2508.2	2590.4	2558.3	2357.7
52.5°	2791.1	2839.3	2843.3	2925.5	2967.7	3031.9	2771.0	2759.0	2811.2	2783.1	2562.4
55°	2779.1	2791.1	2891.4	3041.9	3206.5	3352.9	3035.9	2985.7	3058.0	2979.7	2779.1
57.5°	2662.7	2692.8	2869.4	3056.0	3346.9	3559.6	3264.6	3208.5	3268.7	3164.3	3001.8
60°	2496.1	2540.3	2767.0	3033.9	3429.2	3684.0	3487.4	3431.2	3485.4	3358.9	3254.6
62.5°	2345.6	2365.7	2574.4	2941.6	3381.0	3678.0	3659.9	3607.8	3639.9	3507.4	3471.3
65°	2130.9	2139.0	2345.6	2775.0	3274.7	3637.9	3754.2	3774.3	3808.4	3631.8	3625.8
67.5°	1799.9	1817.9	2022.6	2484.1	3098.1	3559.6	3828.5	3868.6	3908.7	3698.1	3653.9
69°	1561.1	1619.3	1815.9	2239.3	2927.5	3493.4	3848.5	3912.8	3944.9	3716.1	3559.6
70°	1366.5	1416.6	1643.4	2050.7	2777.1	3419.1	3862.6	3906.7	3938.8	3678.0	3405.1
72.5°	686.2	750.4	1061.5	1496.9	2207.2	3080.0	3790.4	3742.2	3708.1	3383.0	2755.0
75°	264.9	274.9	455.5	852.8	1380.5	2261.4	3236.5	3146.3	3045.9	2566.4	1633.3
77.5°	146.5	144.5	198.6	377.2	587.9	1105.6	2189.1	2044.7	1906.2	1378.5	662.2
80°	62.2	66.2	86.3	180.6	309.0	383.2	1063.5	945.1	752.5	437.4	158.5
82.5°	38.1	40.1	60.2	110.4	214.7	146.5	345.1	295.0	216.7	118.4	38.1
85°	12.0	14.0	42.1	74.2	104.3	60.2	78.3	68.2	60.2	50.2	12.0
87.5°	2.0	2.0	16.1	40.1	28.1	10.0	8.0	14.0	22.1	24.1	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°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	674.2	670.2	666.2	664.2	664.2	660.2	658.1	656.1	656.1	654.1	654.1
5°	682.2	678.2	674.2	672.2	668.2	666.2	666.2	666.2	664.2	666.2	668.2
7.5°	702.3	696.3	694.3	692.3	692.3	686.2	676.2	650.1	624.0	616.0	608.0
10°	730.4	728.4	728.4	728.4	714.3	662.2	589.9	525.7	491.6	463.5	463.5
12.5°	770.5	770.5	768.5	762.5	690.2	563.8	451.5	355.2	299.0	266.9	270.9
15°	814.7	812.6	816.7	778.5	608.0	435.4	272.9	192.6	162.5	158.5	158.5
17.5°	860.8	864.8	860.8	736.4	499.6	268.9	162.5	146.5	142.5	142.5	142.5
20°	909.0	904.9	898.9	664.2	363.2	168.5	140.5	136.4	132.4	130.4	130.4
22.5°	957.1	953.1	913.0	571.9	226.7	138.5	132.4	124.4	118.4	116.4	116.4
25°	1003.3	1003.3	886.9	453.5	154.5	130.4	120.4	112.4	106.3	100.3	100.3
27.5°	1061.5	1065.5	844.8	317.0	130.4	120.4	108.4	96.3	88.3	84.3	84.3
30°	1127.7	1133.7	776.5	206.7	118.4	106.3	94.3	80.3	68.2	64.2	62.2
32.5°	1205.9	1212.0	698.3	136.4	106.3	92.3	78.3	60.2	48.2	46.2	44.1
35°	1306.3	1292.2	604.0	108.4	92.3	78.3	60.2	42.1	34.1	32.1	32.1
37.5°	1430.7	1400.6	495.6	94.3	78.3	62.2	44.1	28.1	22.1	22.1	20.1
40°	1573.1	1488.9	383.2	84.3	66.2	48.2	28.1	18.1	14.0	14.0	14.0
42.5°	1729.6	1563.1	272.9	74.2	54.2	34.1	18.1	10.0	8.0	8.0	8.0
45°	1910.2	1631.3	186.6	64.2	46.2	24.1	10.0	4.0	4.0	4.0	4.0
47.5°	2090.8	1675.5	124.4	56.2	34.1	14.0	6.0	2.0	2.0	2.0	2.0
50°	2273.4	1709.6	96.3	48.2	24.1	8.0	2.0	0.0	0.0	0.0	0.0
52.5°	2435.9	1733.7	78.3	40.1	16.1	6.0	2.0	0.0	0.0	0.0	0.0
55°	2576.4	1735.7	68.2	32.1	12.0	4.0	0.0	0.0	0.0	0.0	0.0
57.5°	2718.9	1719.6	58.2	24.1	8.0	2.0	0.0	0.0	0.0	0.0	0.0
60°	2805.1	1677.5	46.2	18.1	6.0	2.0	0.0	0.0	0.0	0.0	0.0
62.5°	2857.3	1607.2	36.1	12.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
65°	2827.2	1519.0	26.1	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	2686.8	1382.5	18.1	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
69°	2520.2	1258.1	16.1	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
70°	2373.7	1161.8	14.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1767.8	748.4	12.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	993.2	250.8	8.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	373.2	64.2	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	82.3	16.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	2.0	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)