

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: P595203

Luminaire Tested: **IST-PA1D-730-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595203
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-PA1D-730-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 5521 lumens
Efficiency: N/A
Efficacy: 88.5 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

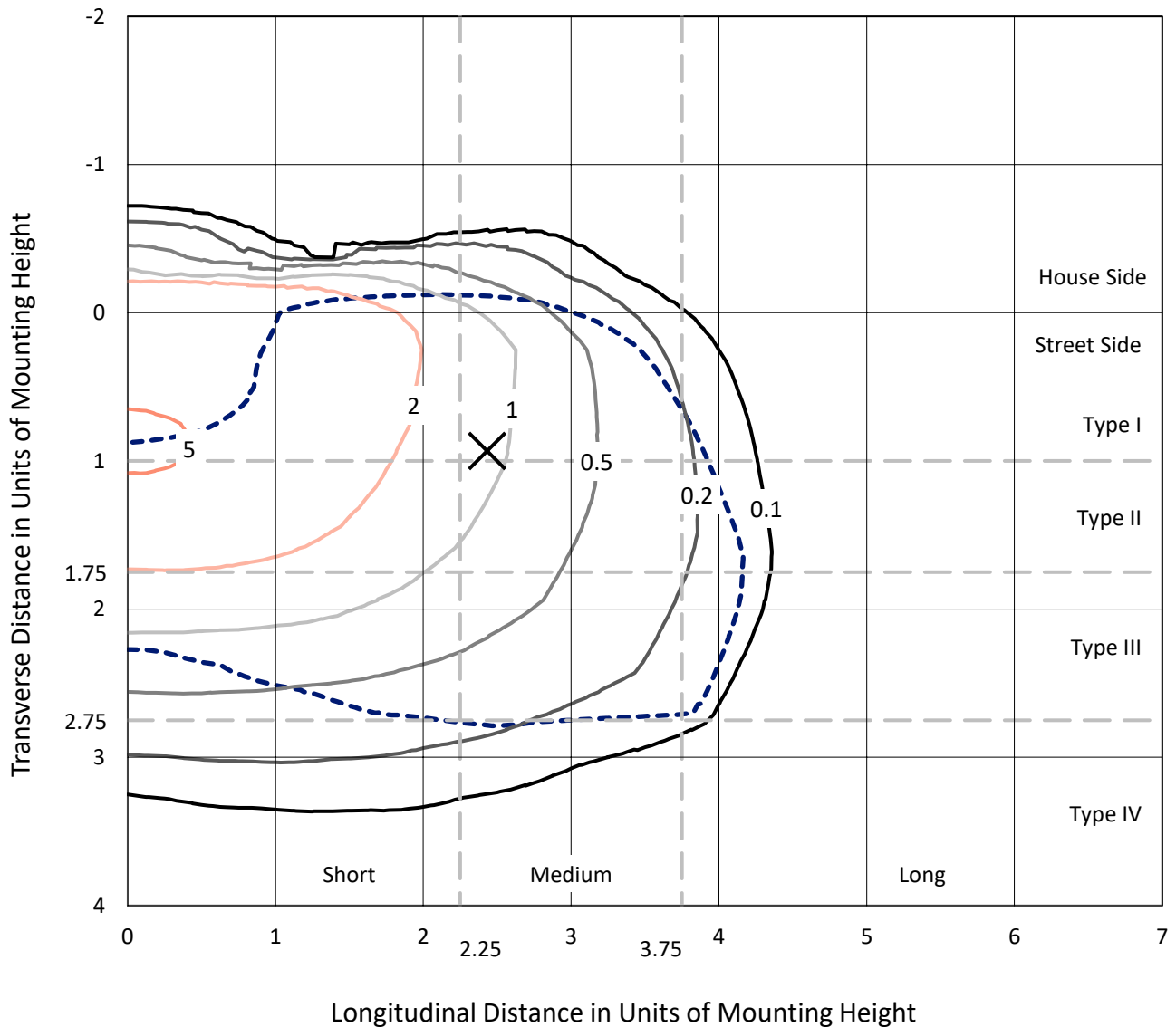
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

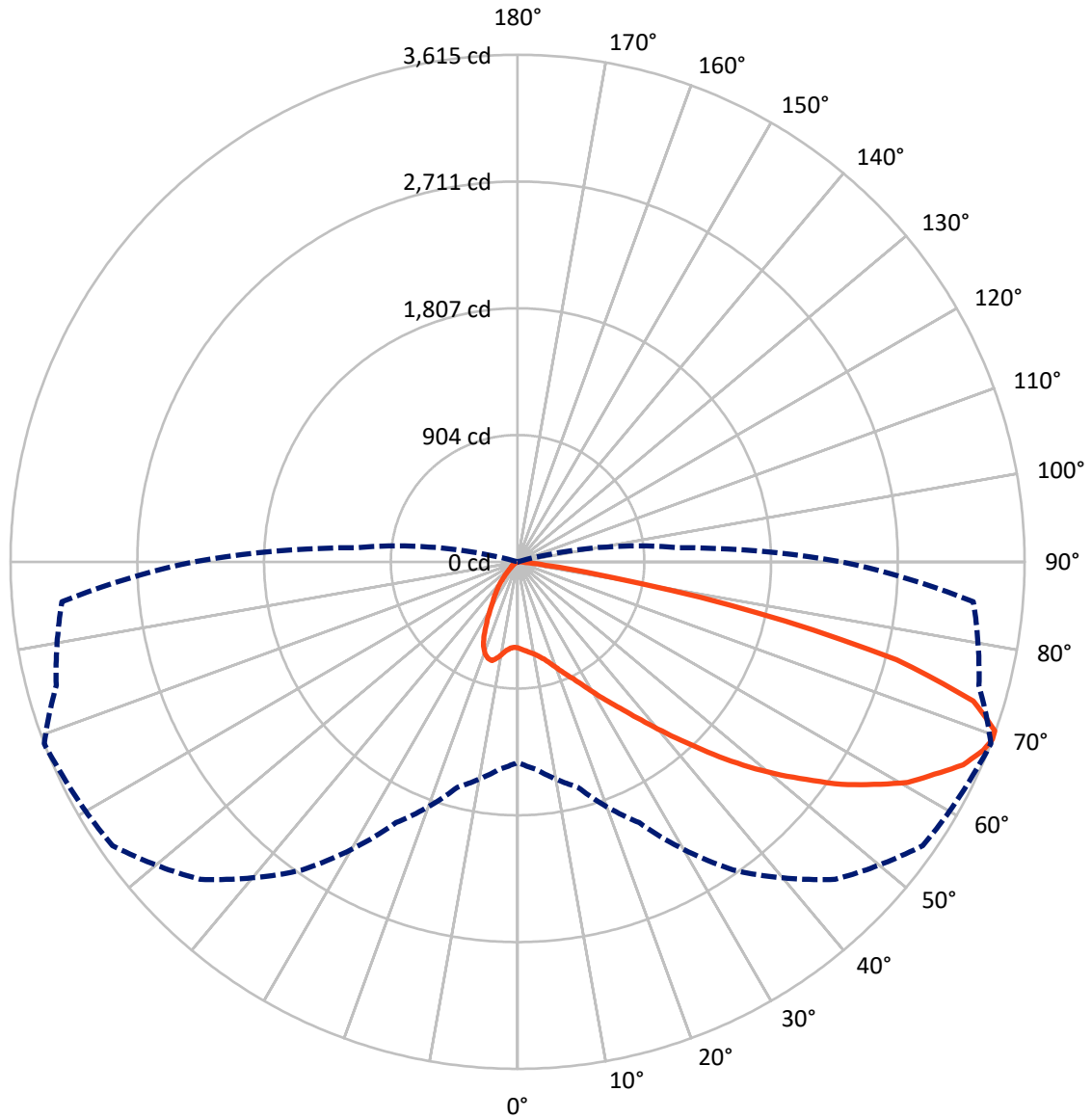
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.3 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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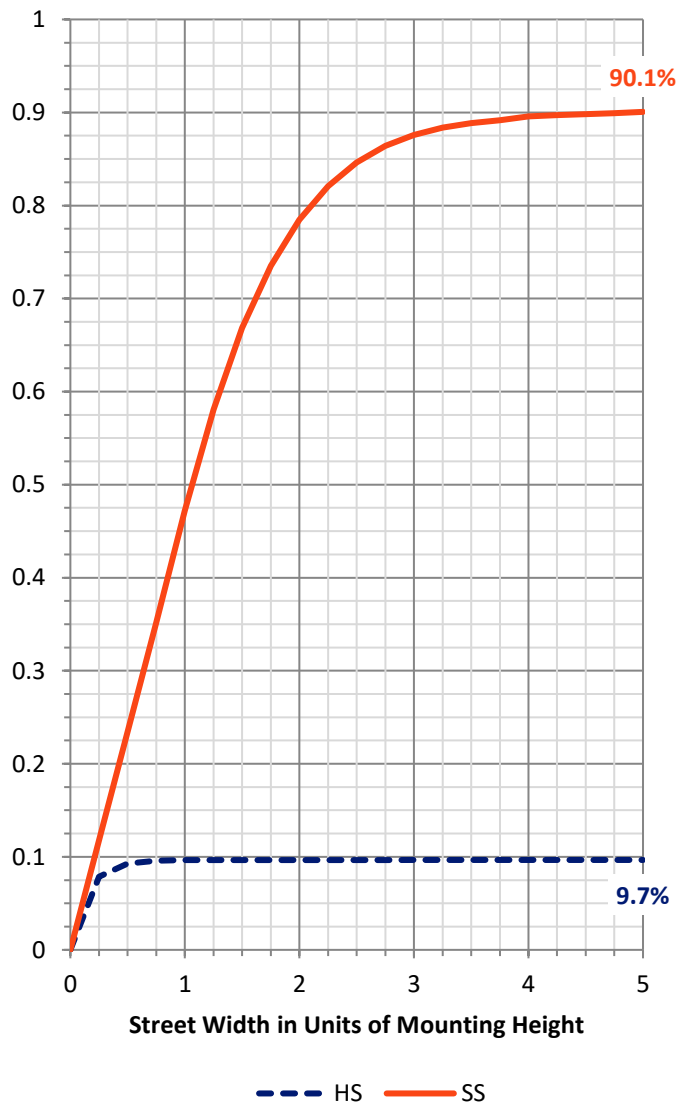
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	538.0	0.0	538.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4983.0	0.0	4983.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	5521.0	0.0	5521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.1
10°-20°	154.9	2.8
20°-30°	257.9	4.7
30°-40°	464.4	8.4
40°-50°	842.1	15.3
50°-60°	1316.0	23.8
60°-70°	1522.5	27.6
70°-80°	851.4	15.4
80°-90°	53.2	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°	5521.0	100.0
0°-180°	5521.0	100.0

Coefficient of Utilization

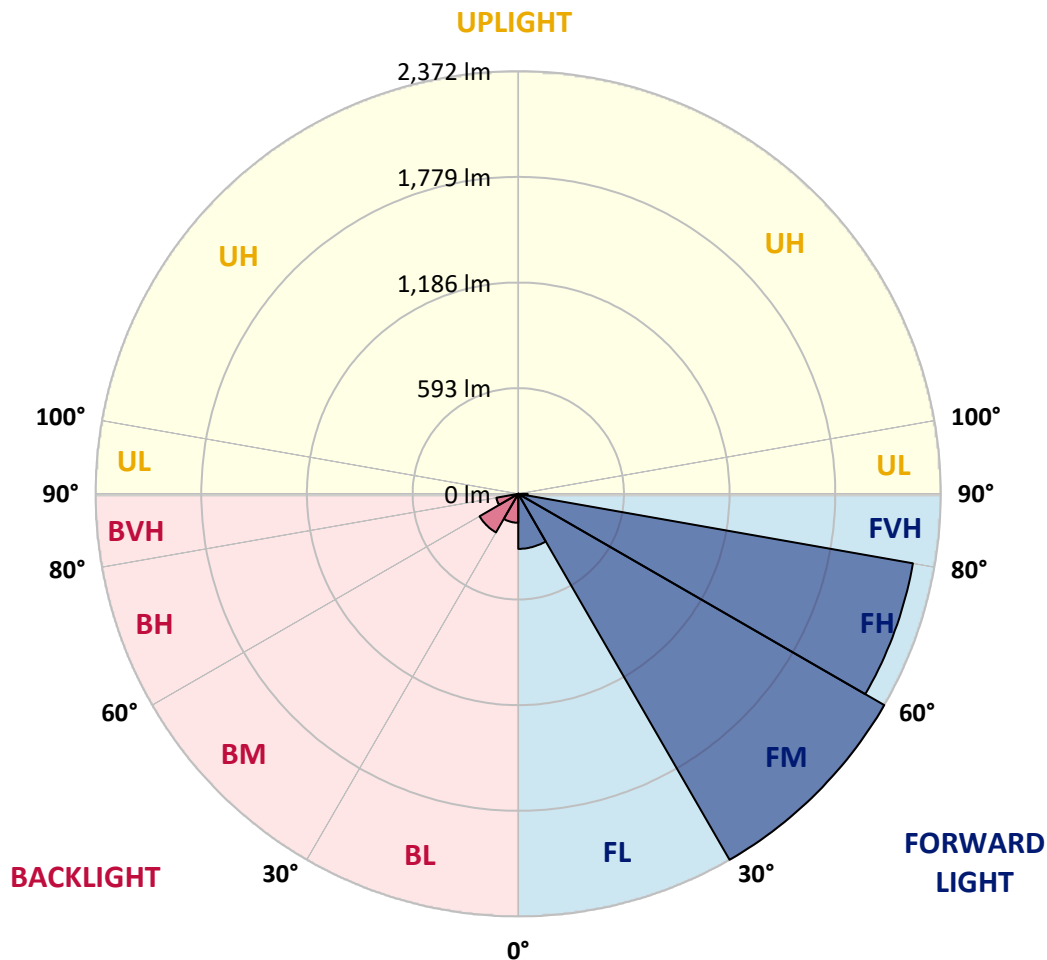


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.9	5.6			
FM (30°-60°)	2372.0	43.0			
FH (60°-80°)	2249.4	40.7			G2/5000
FVH (80°-90°)	52.8	1.0			G1/100
BL (0°-30°)	162.6	2.9	B1/500		
BM (30°-60°)	250.4	4.5	B1/1000		
BH (60°-80°)	124.6	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°	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1
2.5°	636.2	636.2	636.2	632.5	634.3	632.5	630.7	625.2	627.0	625.2	619.6
5°	614.1	616.0	621.5	625.2	634.3	638.0	639.9	639.9	638.0	634.3	630.7
7.5°	571.8	571.8	577.3	588.4	606.8	627.0	643.5	652.7	654.6	654.6	649.1
10°	560.8	560.8	568.2	575.5	593.9	617.8	643.5	665.6	669.3	673.0	671.1
12.5°	555.3	557.1	564.5	577.3	601.3	623.3	650.9	682.2	693.2	702.4	704.2
15°	562.6	562.6	570.0	582.9	610.4	641.7	676.6	711.6	722.6	735.5	744.7
17.5°	573.7	577.3	581.0	593.9	619.6	658.3	704.2	750.2	763.1	779.6	787.0
20°	592.1	592.1	595.7	606.8	634.3	680.3	744.7	799.8	810.9	821.9	831.1
22.5°	614.1	616.0	616.0	625.2	656.4	706.1	779.6	847.6	866.0	871.5	875.2
25°	680.3	676.6	663.8	658.3	682.2	735.5	821.9	904.6	924.9	930.4	923.0
27.5°	818.2	803.5	768.6	731.8	728.1	781.4	878.9	976.3	998.4	1000.2	974.5
30°	991.1	992.9	935.9	856.8	803.5	831.1	941.4	1066.4	1088.5	1079.3	1038.9
32.5°	1204.3	1195.1	1152.9	1038.9	932.2	908.3	1009.4	1160.2	1186.0	1171.2	1117.9
35°	1386.4	1391.9	1340.4	1239.3	1105.1	1027.8	1092.2	1265.0	1296.3	1270.5	1204.3
37.5°	1539.0	1546.3	1515.1	1432.3	1312.8	1191.5	1200.7	1388.2	1430.5	1404.8	1322.0
40°	1708.1	1713.7	1700.8	1610.7	1504.0	1386.4	1345.9	1529.8	1586.8	1551.9	1465.4
42.5°	1893.9	1914.1	1892.0	1820.3	1710.0	1608.9	1548.2	1702.6	1759.6	1737.6	1621.7
45°	2147.6	2149.4	2123.7	2052.0	1938.0	1855.2	1781.7	1886.5	1960.0	1932.5	1796.4
47.5°	2335.1	2348.0	2333.3	2283.7	2191.7	2136.6	2035.4	2088.8	2166.0	2131.0	1976.6
50°	2478.6	2513.5	2500.6	2515.3	2469.4	2445.5	2291.0	2298.4	2373.7	2344.3	2160.5
52.5°	2557.6	2601.7	2605.4	2680.8	2719.4	2778.3	2539.2	2528.2	2576.0	2550.3	2348.0
55°	2546.6	2557.6	2649.6	2787.5	2938.2	3072.5	2781.9	2736.0	2802.2	2730.5	2546.6
57.5°	2439.9	2467.5	2629.3	2800.3	3066.9	3261.8	2991.5	2940.1	2995.2	2899.6	2750.7
60°	2287.3	2327.8	2535.6	2780.1	3142.3	3375.8	3195.6	3144.2	3193.8	3078.0	2982.4
62.5°	2149.4	2167.8	2359.0	2695.5	3098.2	3370.3	3353.8	3306.0	3335.4	3214.0	3180.9
65°	1952.7	1960.0	2149.4	2542.9	3000.7	3333.5	3440.2	3458.6	3489.8	3328.0	3322.5
67.5°	1649.3	1665.9	1853.4	2276.3	2838.9	3261.8	3508.2	3545.0	3581.8	3388.7	3348.3
69°	1430.5	1483.8	1664.0	2052.0	2682.6	3201.2	3526.6	3585.4	3614.9	3405.3	3261.8
70°	1252.1	1298.1	1505.9	1879.1	2544.7	3133.1	3539.5	3579.9	3609.3	3370.3	3120.3
72.5°	628.8	687.7	972.7	1371.7	2022.6	2822.4	3473.3	3429.2	3397.9	3100.0	2524.5
75°	242.7	251.9	417.4	781.4	1265.0	2072.2	2965.8	2883.1	2791.1	2351.7	1496.7
77.5°	134.2	132.4	182.0	345.7	538.7	1013.1	2006.0	1873.6	1746.8	1263.2	606.8
80°	57.0	60.7	79.1	165.5	283.2	351.2	974.5	866.0	689.5	400.8	145.3
82.5°	34.9	36.8	55.2	101.1	196.7	134.2	316.3	270.3	198.6	108.5	34.9
85°	11.0	12.9	38.6	68.0	95.6	55.2	71.7	62.5	55.2	46.0	11.0
87.5°	1.8	1.8	14.7	36.8	25.7	9.2	7.4	12.9	20.2	22.1	3.7
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°	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1
2.5°	617.8	614.1	610.4	608.6	608.6	604.9	603.1	601.3	601.3	599.4	599.4
5°	625.2	621.5	617.8	616.0	612.3	610.4	610.4	610.4	608.6	610.4	612.3
7.5°	643.5	638.0	636.2	634.3	634.3	628.8	619.6	595.7	571.8	564.5	557.1
10°	669.3	667.4	667.4	667.4	654.6	606.8	540.6	481.7	450.5	424.7	424.7
12.5°	706.1	706.1	704.2	698.7	632.5	516.7	413.7	325.4	274.0	244.5	248.2
15°	746.5	744.7	748.3	713.4	557.1	399.0	250.1	176.5	148.9	145.3	145.3
17.5°	788.8	792.5	788.8	674.8	457.8	246.4	148.9	134.2	130.5	130.5	130.5
20°	832.9	829.2	823.7	608.6	332.8	154.4	128.7	125.0	121.4	119.5	119.5
22.5°	877.1	873.4	836.6	524.0	207.8	126.9	121.4	114.0	108.5	106.6	106.6
25°	919.3	919.3	812.7	415.5	141.6	119.5	110.3	103.0	97.5	91.9	91.9
27.5°	972.7	976.3	774.1	290.5	119.5	110.3	99.3	88.3	80.9	77.2	77.2
30°	1033.3	1038.9	711.6	189.4	108.5	97.5	86.4	73.5	62.5	58.8	57.0
32.5°	1105.1	1110.6	639.9	125.0	97.5	84.6	71.7	55.2	44.1	42.3	40.5
35°	1197.0	1184.1	553.4	99.3	84.6	71.7	55.2	38.6	31.3	29.4	29.4
37.5°	1311.0	1283.4	454.2	86.4	71.7	57.0	40.5	25.7	20.2	20.2	18.4
40°	1441.5	1364.3	351.2	77.2	60.7	44.1	25.7	16.5	12.9	12.9	12.9
42.5°	1585.0	1432.3	250.1	68.0	49.6	31.3	16.5	9.2	7.4	7.4	7.4
45°	1750.4	1494.9	171.0	58.8	42.3	22.1	9.2	3.7	3.7	3.7	3.7
47.5°	1915.9	1535.3	114.0	51.5	31.3	12.9	5.5	1.8	1.8	1.8	1.8
50°	2083.2	1566.6	88.3	44.1	22.1	7.4	1.8	0.0	0.0	0.0	0.0
52.5°	2232.2	1588.6	71.7	36.8	14.7	5.5	1.8	0.0	0.0	0.0	0.0
55°	2360.9	1590.5	62.5	29.4	11.0	3.7	0.0	0.0	0.0	0.0	0.0
57.5°	2491.4	1575.8	53.3	22.1	7.4	1.8	0.0	0.0	0.0	0.0	0.0
60°	2570.5	1537.1	42.3	16.5	5.5	1.8	0.0	0.0	0.0	0.0	0.0
62.5°	2618.3	1472.8	33.1	11.0	3.7	1.8	0.0	0.0	0.0	0.0	0.0
65°	2590.7	1391.9	23.9	7.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	2462.0	1266.9	16.5	5.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
69°	2309.4	1152.9	14.7	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
70°	2175.2	1064.6	12.9	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	1619.9	685.8	11.0	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
75°	910.2	229.8	7.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	342.0	58.8	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.4	14.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	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)