

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: P595358

Luminaire Tested: **IST-PA1F-727-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595358  
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-PA1F-727-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA 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: 6761 lumens  
Efficiency: N/A  
Efficacy: 72.3 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

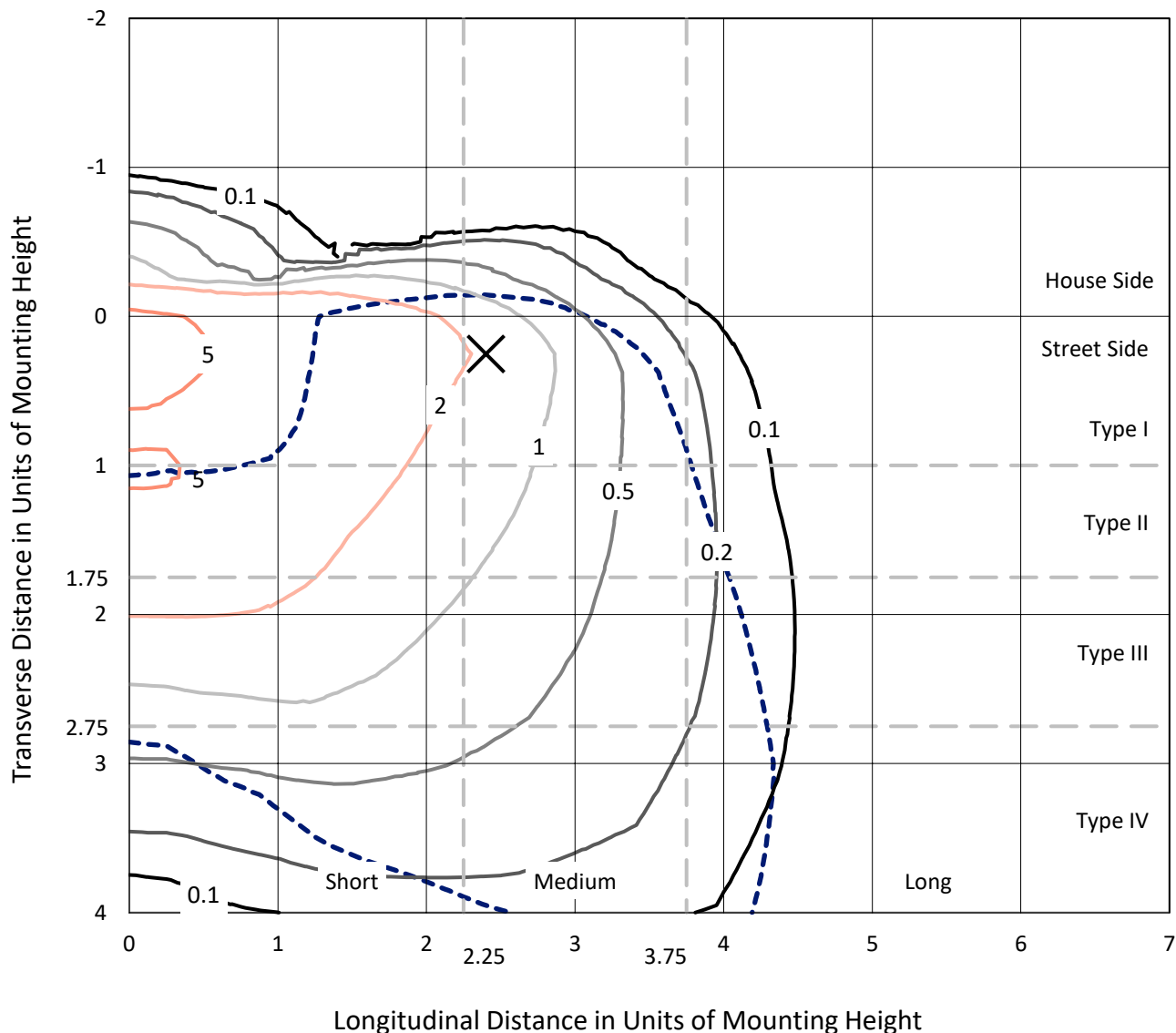
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

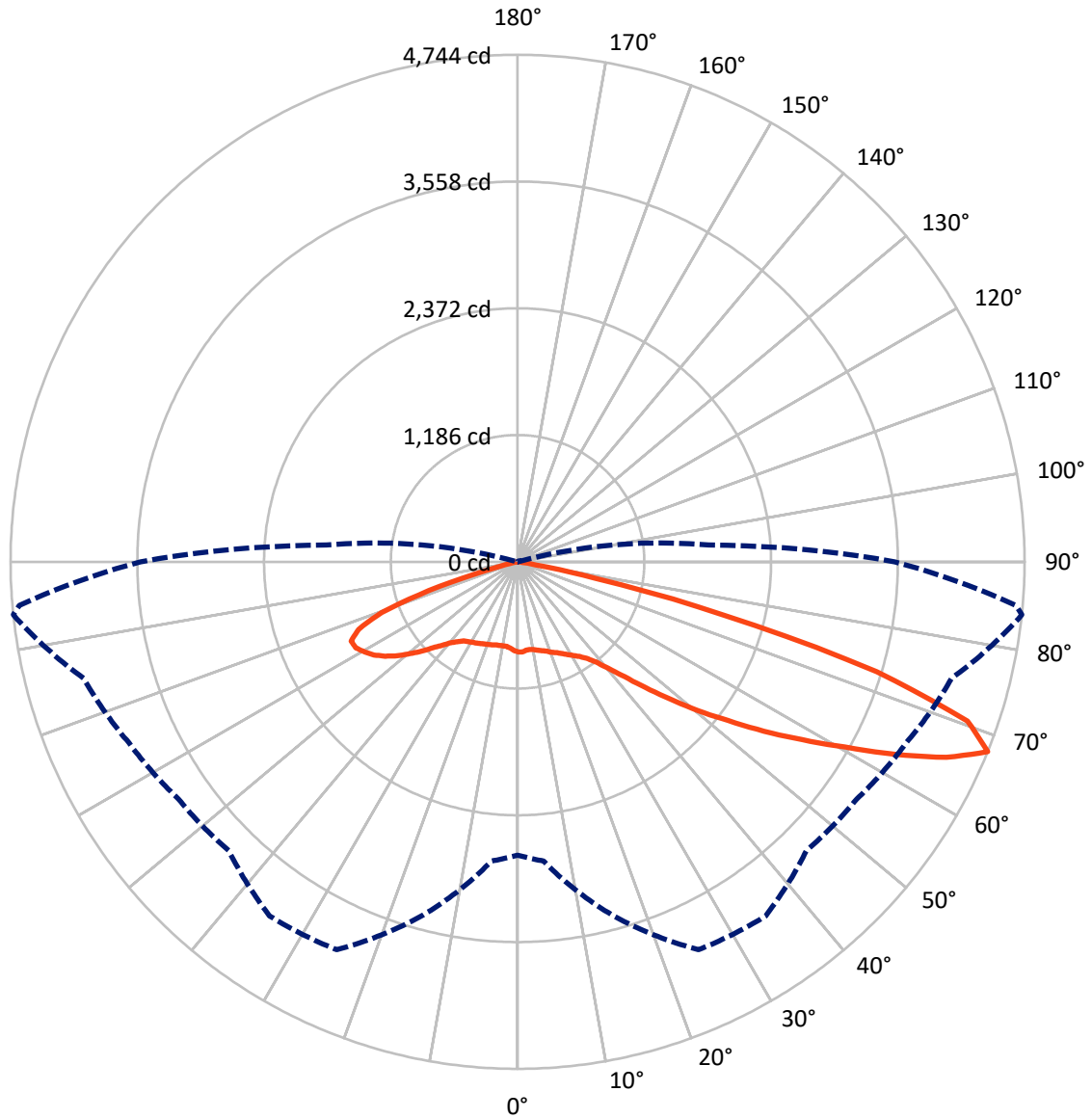
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.9 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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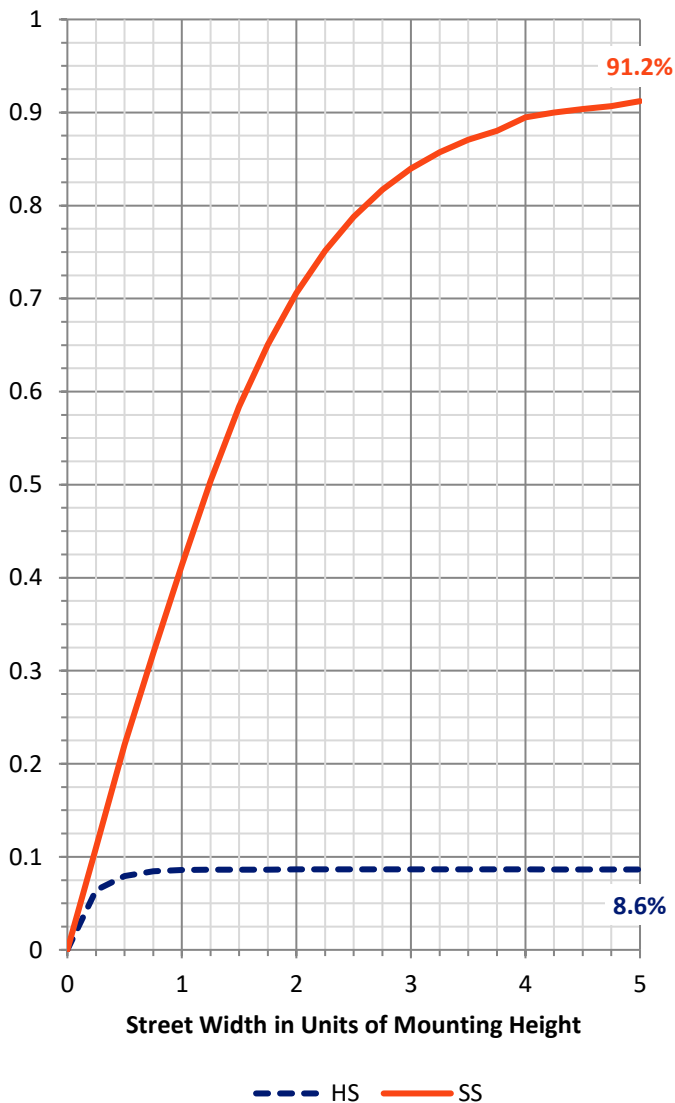
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	588.6	0.0	588.6
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	6172.4	0.0	6172.4
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	6761.0	0.0	6761.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	1.1
10°-20°	197.6	2.9
20°-30°	316.4	4.7
30°-40°	455.3	6.7
40°-50°	781.5	11.6
50°-60°	1365.4	20.2
60°-70°	1955.4	28.9
70°-80°	1469.7	21.7
80°-90°	144.2	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°	6761.0	100.0
0°-180°	6761.0	100.0

**Coefficient of Utilization**

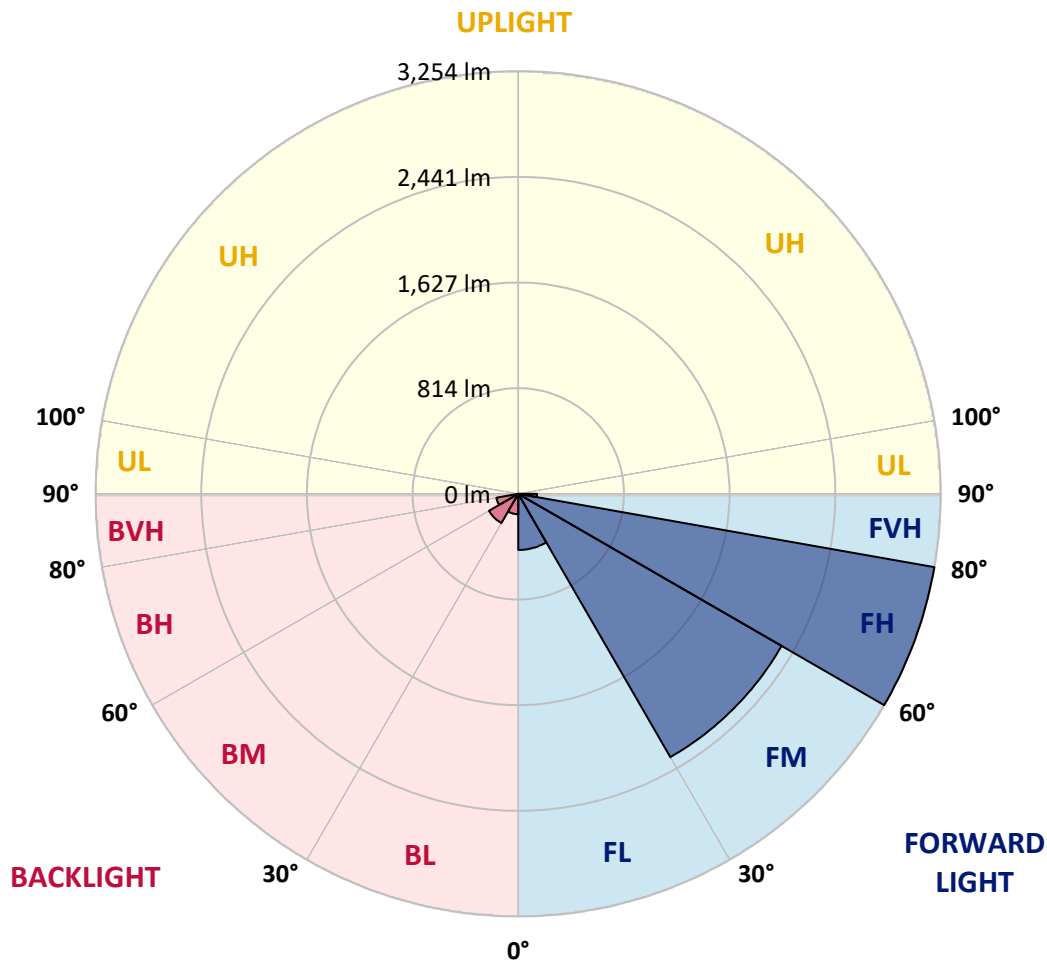


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.2	6.4			
FM (30°-60°)	2341.9	34.6			
FH (60°-80°)	3254.4	48.1			G2/5000
FVH (80°-90°)	143.8	2.1			G2/225
BL (0°-30°)	157.2	2.3	B1/500		
BM (30°-60°)	260.3	3.9	B1/1000		
BH (60°-80°)	170.7	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°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3
2.5°	890.3	894.8	897.1	885.7	885.7	876.6	862.9	858.3	851.5	844.6	842.3
5°	935.9	942.8	940.5	926.8	920.0	901.7	883.4	865.2	846.9	830.9	830.9
7.5°	988.4	990.7	983.9	961.0	947.3	922.2	894.8	874.3	851.5	828.6	824.1
10°	1034.1	1031.8	1022.7	999.8	974.7	942.8	913.1	890.3	862.9	835.5	833.2
12.5°	1066.0	1068.3	1056.9	1025.0	999.8	963.3	933.6	910.8	878.9	849.2	842.3
15°	1093.4	1100.3	1086.6	1054.6	1018.1	986.2	963.3	933.6	897.1	862.9	858.3
17.5°	1118.6	1120.8	1109.4	1072.9	1038.7	1011.3	986.2	958.8	922.2	878.9	874.3
20°	1132.2	1139.1	1132.2	1086.6	1054.6	1034.1	1013.5	986.2	945.1	904.0	899.4
22.5°	1141.4	1148.2	1145.9	1095.7	1068.3	1052.4	1034.1	1009.0	970.2	922.2	917.7
25°	1145.9	1150.5	1155.1	1104.9	1082.0	1075.2	1059.2	1036.4	999.8	949.6	945.1
27.5°	1152.8	1157.4	1161.9	1116.3	1107.1	1100.3	1095.7	1077.5	1034.1	981.6	974.7
30°	1164.2	1171.1	1175.6	1136.8	1136.8	1143.7	1143.7	1118.6	1070.6	1015.8	1011.3
32.5°	1177.9	1180.2	1189.3	1157.4	1168.8	1184.8	1180.2	1155.1	1104.9	1054.6	1047.8
35°	1214.4	1214.4	1230.4	1189.3	1203.0	1216.7	1221.3	1203.0	1157.4	1107.1	1104.9
37.5°	1303.5	1303.5	1317.2	1251.0	1248.7	1262.4	1278.3	1278.3	1232.7	1187.0	1182.5
40°	1504.3	1504.3	1504.3	1351.4	1326.3	1342.3	1367.4	1381.1	1342.3	1310.3	1310.3
42.5°	1839.9	1842.2	1807.9	1536.3	1429.0	1456.4	1483.8	1513.5	1492.9	1470.1	1465.5
45°	2186.9	2175.5	2170.9	1807.9	1611.6	1597.9	1632.2	1682.4	1689.2	1675.5	1684.7
47.5°	2424.3	2435.7	2442.6	2145.8	1867.3	1773.7	1805.7	1876.4	1917.5	1915.2	1928.9
50°	2654.9	2661.7	2668.5	2517.9	2205.1	1995.1	2015.7	2111.6	2168.6	2186.9	2196.0
52.5°	2855.7	2837.5	2867.1	2846.6	2563.5	2248.5	2248.5	2358.1	2460.8	2467.7	2465.4
55°	2915.1	2926.5	3015.5	3077.2	2931.1	2559.0	2513.3	2629.7	2739.3	2796.4	2796.4
57.5°	3047.5	3058.9	3166.2	3305.4	3198.1	2864.9	2796.4	2910.5	3029.2	3138.8	3154.8
60°	3221.0	3223.3	3337.4	3549.7	3401.3	3141.1	3084.0	3214.1	3332.8	3520.0	3572.5
62.5°	3314.6	3323.7	3481.2	3759.7	3657.0	3383.1	3369.4	3488.1	3641.0	3969.7	4017.7
65°	3170.8	3230.1	3572.5	3885.3	3864.7	3609.0	3657.0	3752.9	3928.6	4410.3	4456.0
67.5°	2743.9	2810.1	3421.9	4004.0	4045.1	3821.3	3871.6	4010.8	4204.8	4743.6	4679.7
70°	2527.0	2581.8	3056.6	4070.2	4195.7	4058.8	4081.6	4211.7	4268.8	4465.1	4396.6
72.5°	1915.2	1972.3	2586.4	3844.2	4325.8	4307.6	4250.5	4143.2	3805.4	3513.2	3346.5
75°	846.9	913.1	1721.2	3004.1	4004.0	4449.1	4147.8	3547.4	2732.5	1995.1	1849.0
77.5°	374.4	413.2	666.6	1668.7	3008.7	3851.0	3280.3	2364.9	1371.9	741.9	689.4
80°	121.0	125.6	210.0	584.4	1538.6	2549.8	2008.8	1136.8	422.3	173.5	162.1
82.5°	47.9	52.5	100.4	246.5	636.9	1013.5	986.2	410.9	123.3	45.7	45.7
85°	13.7	16.0	50.2	130.1	226.0	285.3	349.3	137.0	66.2	13.7	13.7
87.5°	4.6	4.6	18.3	41.1	43.4	29.7	66.2	52.5	41.1	4.6	4.6
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°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3
2.5°	837.8	833.2	821.8	812.7	808.1	801.2	792.1	787.6	787.6	785.3	778.4
5°	821.8	814.9	794.4	780.7	769.3	744.2	725.9	703.1	680.3	673.4	680.3
7.5°	814.9	801.2	773.9	746.5	698.5	632.3	589.0	541.0	525.0	504.5	506.8
10°	817.2	801.2	762.4	700.8	607.2	509.1	440.6	376.7	344.7	328.7	331.0
12.5°	824.1	805.8	751.0	639.2	504.5	385.8	280.8	230.6	221.4	221.4	221.4
15°	837.8	810.4	732.8	566.1	394.9	255.7	198.6	194.0	200.9	207.7	210.0
17.5°	851.5	824.1	705.4	490.8	287.6	191.8	184.9	184.9	191.8	198.6	200.9
20°	867.4	837.8	666.6	410.9	205.4	180.3	178.1	175.8	180.3	187.2	189.5
22.5°	892.6	851.5	620.9	317.3	178.1	173.5	168.9	166.6	168.9	175.8	178.1
25°	915.4	869.7	573.0	235.1	166.6	162.1	159.8	157.5	157.5	162.1	164.4
27.5°	942.8	890.3	520.5	175.8	152.9	150.7	148.4	146.1	143.8	148.4	150.7
30°	977.0	908.5	463.4	148.4	139.2	137.0	134.7	132.4	130.1	132.4	134.7
32.5°	1020.4	933.6	397.2	134.7	127.8	121.0	118.7	118.7	116.4	116.4	118.7
35°	1077.5	961.0	326.4	125.6	116.4	109.6	102.7	100.4	100.4	100.4	102.7
37.5°	1161.9	1011.3	258.0	116.4	107.3	95.9	89.0	82.2	82.2	82.2	82.2
40°	1278.3	1066.0	200.9	109.6	100.4	84.5	75.3	66.2	61.6	59.4	61.6
42.5°	1458.7	1148.2	155.2	100.4	95.9	75.3	61.6	50.2	41.1	38.8	41.1
45°	1657.3	1237.3	123.3	93.6	86.7	63.9	47.9	34.2	25.1	22.8	25.1
47.5°	1908.4	1349.1	105.0	84.5	75.3	52.5	34.2	18.3	11.4	13.7	13.7
50°	2150.4	1458.7	95.9	77.6	66.2	43.4	20.5	9.1	4.6	6.8	6.8
52.5°	2417.4	1575.1	89.0	68.5	57.1	32.0	11.4	2.3	0.0	2.3	2.3
55°	2686.8	1680.1	82.2	61.6	45.7	22.8	4.6	0.0	0.0	0.0	2.3
57.5°	2979.0	1769.1	75.3	52.5	34.2	13.7	2.3	0.0	0.0	0.0	0.0
60°	3223.3	1837.6	68.5	45.7	22.8	6.8	0.0	0.0	0.0	0.0	0.0
62.5°	3447.0	1899.3	52.5	34.2	13.7	4.6	0.0	0.0	0.0	0.0	0.0
65°	3595.3	1913.0	36.5	22.8	9.1	2.3	0.0	0.0	0.0	0.0	0.0
67.5°	3529.1	1794.3	22.8	16.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0
70°	3102.3	1506.6	16.0	9.1	2.3	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	2170.9	972.5	13.7	6.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0
75°	1145.9	351.5	9.1	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	406.3	77.6	4.6	2.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0
80°	89.0	16.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.1	4.6	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)