

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: P595363

Luminaire Tested: **IST-PA1F-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-730-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7231 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

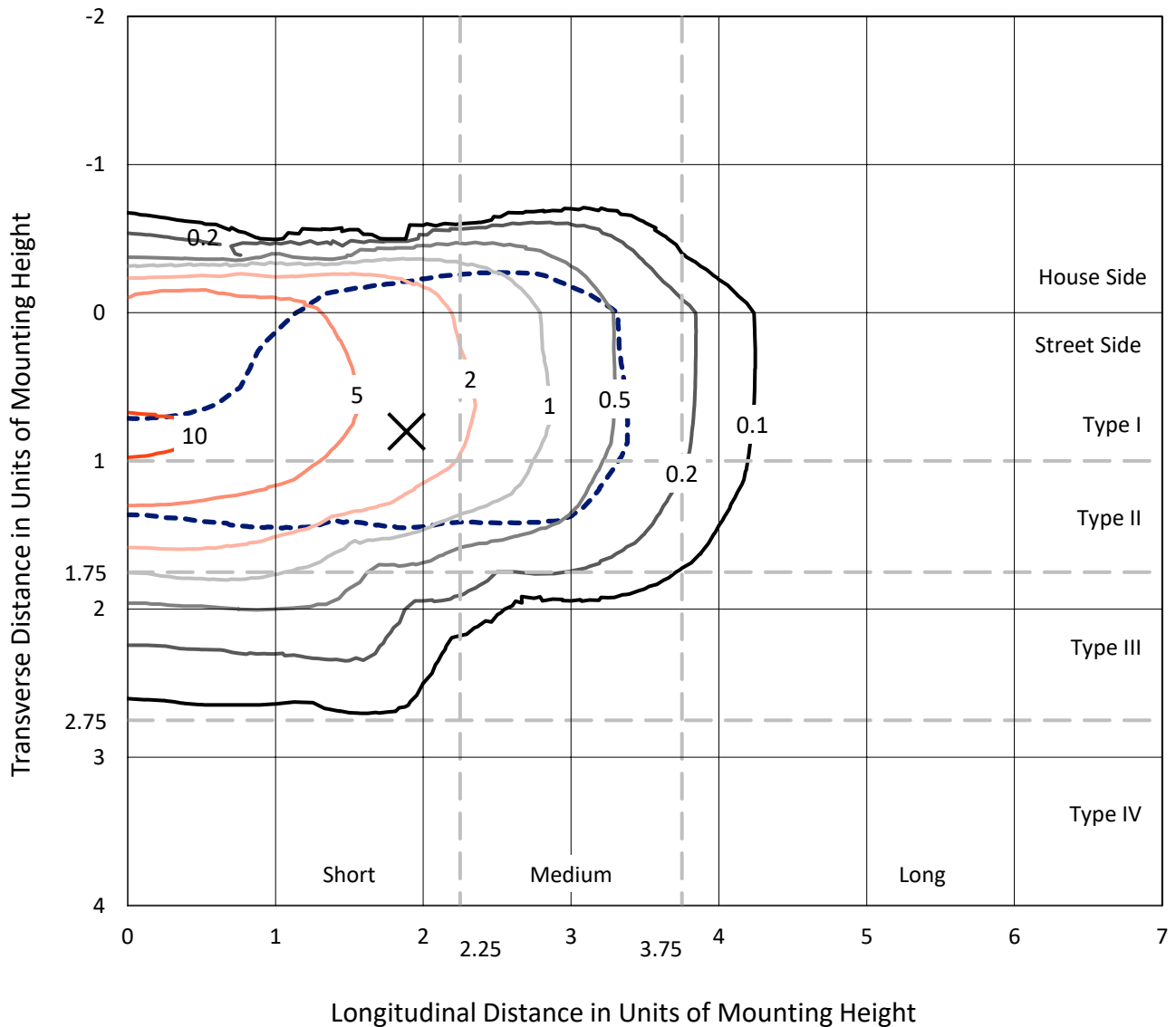
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

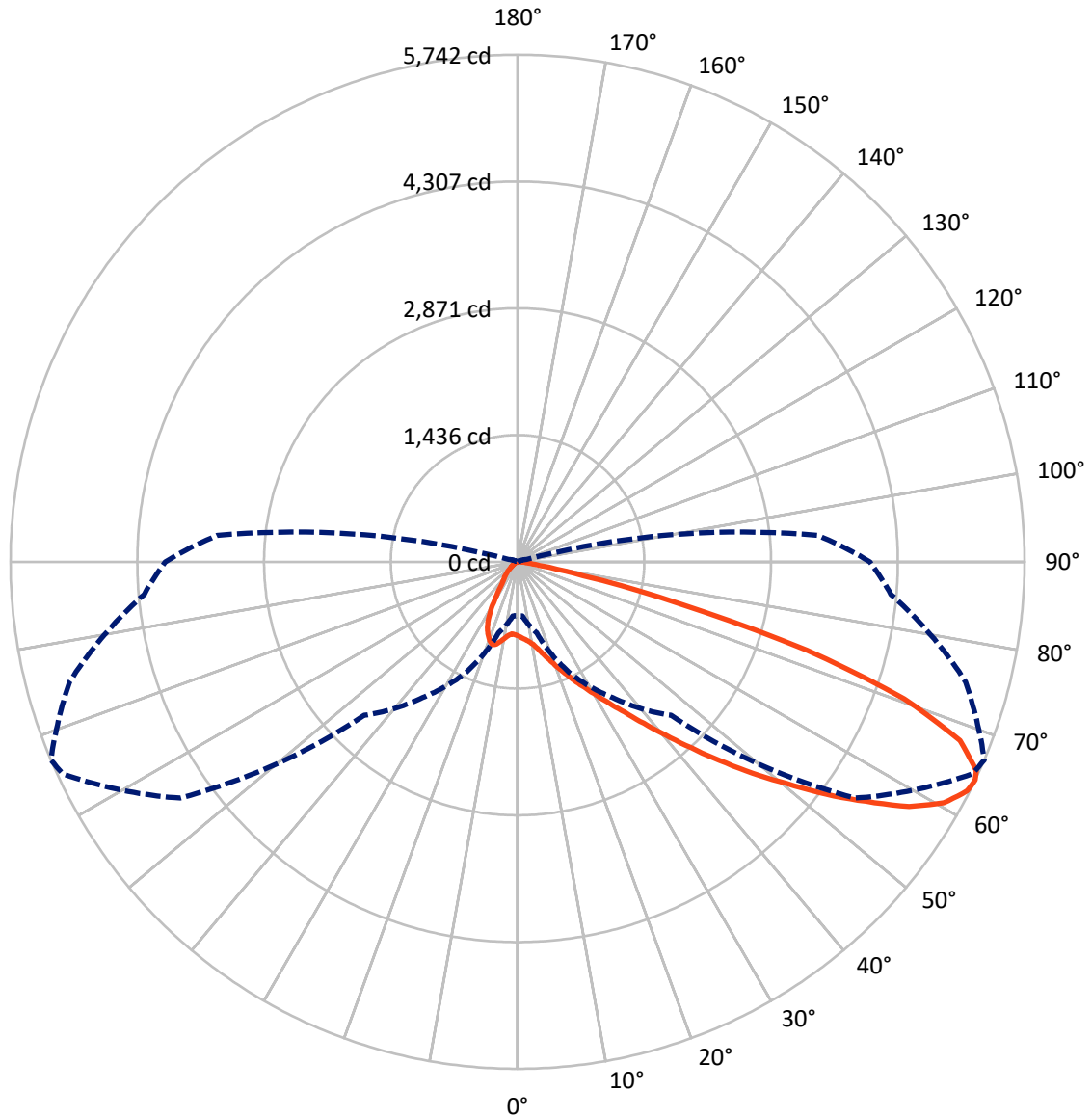
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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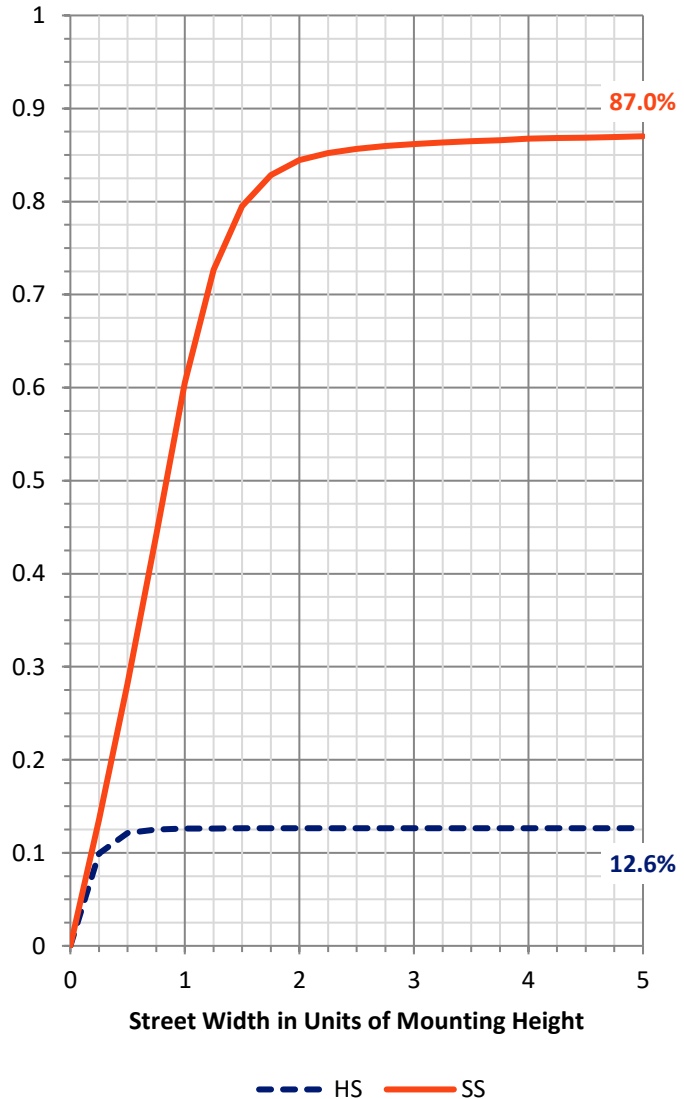
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	925.0	0.0	925.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6306.0	0.0	6306.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	7231.0	0.0	7231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	1.1
10°-20°	235.3	3.3
20°-30°	426.8	5.9
30°-40°	817.7	11.3
40°-50°	1507.0	20.8
50°-60°	1946.4	26.9
60°-70°	1594.3	22.0
70°-80°	586.1	8.1
80°-90°	37.8	0.5
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°	7231.0	100.0
0°-180°	7231.0	100.0

Coefficient of Utilization

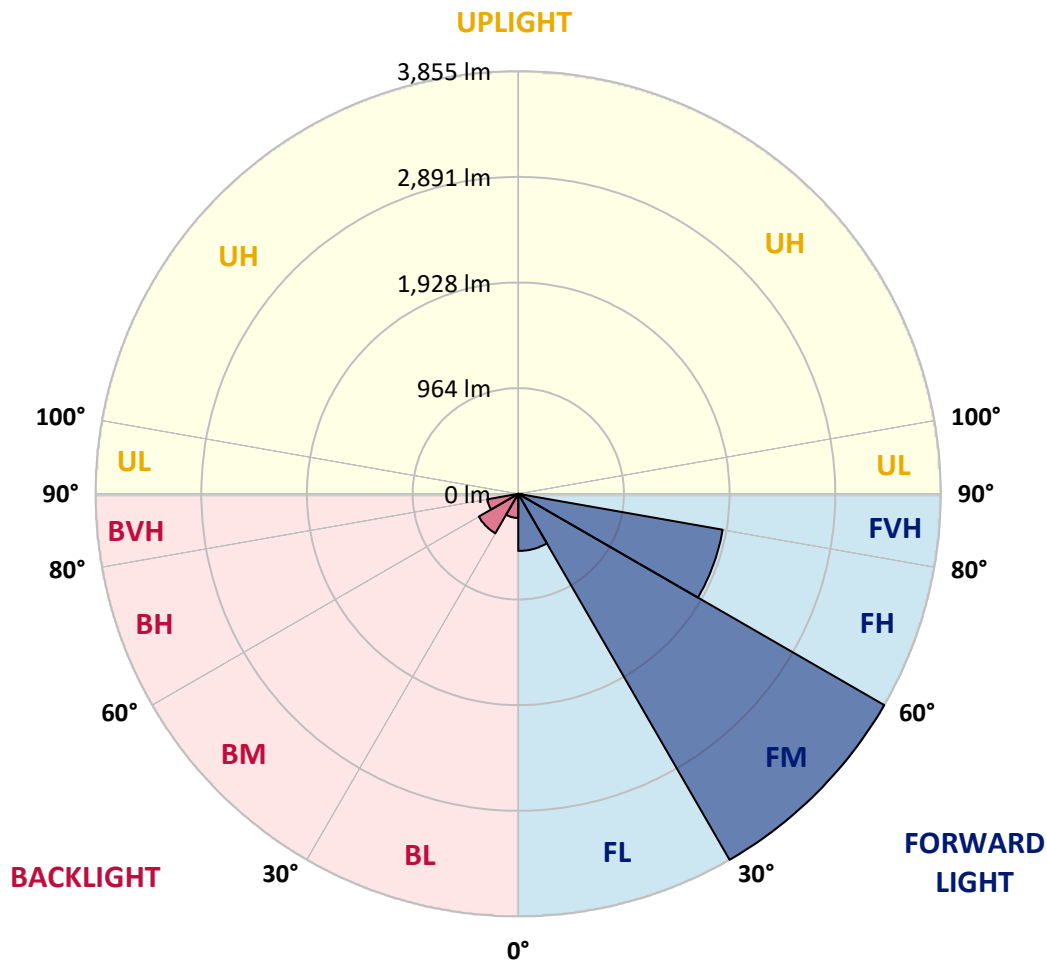


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.3	7.2			
FM (30°-60°)	3855.2	53.3			
FH (60°-80°)	1893.4	26.2			G2/5000
FVH (80°-90°)	36.1	0.5			G1/100
BL (0°-30°)	220.4	3.0	B1/500		
BM (30°-60°)	415.9	5.8	B1/1000		
BH (60°-80°)	287.0	4.0	B1/500		G1/500
BVH (80°-90°)	1.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2
2.5°	870.0	870.0	875.0	872.5	872.5	867.6	860.1	862.6	860.1	857.6	850.1
5°	855.1	857.6	860.1	865.1	875.0	880.0	880.0	882.5	882.5	880.0	870.0
7.5°	847.7	852.6	857.6	862.6	875.0	882.5	894.9	909.8	909.8	912.3	902.4
10°	875.0	880.0	887.4	894.9	907.3	919.8	929.7	947.1	947.1	952.1	949.6
12.5°	932.2	932.2	934.7	939.6	957.0	972.0	989.4	1004.3	1006.8	1009.2	1001.8
15°	1001.8	1001.8	1004.3	1004.3	1014.2	1036.6	1068.9	1083.8	1081.3	1078.8	1063.9
17.5°	1081.3	1081.3	1081.3	1083.8	1088.8	1101.2	1138.5	1168.3	1165.8	1163.4	1133.5
20°	1155.9	1160.9	1165.8	1168.3	1173.3	1183.2	1223.0	1257.8	1265.3	1255.3	1203.1
22.5°	1240.4	1242.9	1245.4	1252.9	1265.3	1270.3	1310.0	1362.2	1369.7	1357.3	1287.7
25°	1324.9	1329.9	1337.4	1347.3	1359.7	1384.6	1411.9	1481.5	1489.0	1474.1	1379.6
27.5°	1511.4	1508.9	1486.5	1469.1	1471.6	1489.0	1526.3	1600.9	1608.3	1593.4	1471.6
30°	1829.6	1799.7	1757.5	1680.4	1605.8	1613.3	1665.5	1737.6	1750.0	1730.1	1573.5
32.5°	2282.0	2252.2	2147.7	1978.7	1814.6	1760.0	1827.1	1896.7	1911.6	1889.2	1692.8
35°	2722.0	2714.5	2615.1	2411.2	2132.8	1981.2	1998.6	2088.1	2093.1	2065.7	1842.0
37.5°	3266.4	3239.0	3102.3	2873.6	2545.5	2274.5	2224.8	2309.3	2321.8	2289.4	2023.5
40°	3626.8	3616.9	3534.8	3373.3	3020.3	2679.7	2500.7	2582.8	2580.3	2533.0	2232.3
42.5°	3835.6	3840.6	3835.6	3758.6	3557.2	3166.9	2866.1	2871.1	2878.6	2828.9	2473.4
45°	3977.3	3977.3	3984.8	4046.9	3969.9	3748.6	3311.1	3199.2	3209.2	3132.1	2724.5
47.5°	3974.8	3989.7	4029.5	4173.7	4278.1	4290.5	3867.9	3582.1	3577.1	3460.3	2983.0
50°	3706.4	3696.4	3860.5	4183.6	4496.8	4738.0	4394.9	3987.3	3945.0	3800.8	3251.4
52.5°	3102.3	3134.6	3408.1	3882.8	4549.0	5041.2	4849.8	4429.7	4375.0	4138.9	3487.6
55°	2575.3	2610.1	2876.1	3340.9	4265.7	5148.1	5155.6	4899.5	4790.2	4432.2	3731.2
57.5°	1934.0	2001.1	2393.8	2831.3	3644.2	4882.1	5265.0	5349.5	5230.2	4715.6	3930.1
60°	1235.5	1275.2	1715.2	2254.6	2953.2	4186.1	5242.6	5610.5	5545.9	4974.1	4096.6
62.5°	807.9	830.3	1133.5	1697.8	2249.7	3154.5	4976.6	5714.9	5714.9	5148.1	4220.9
64°	609.0	614.0	830.3	1379.6	1876.8	2458.5	4663.4	5682.6	5742.2	5252.5	4245.8
65°	482.2	484.7	648.8	1146.0	1685.4	2016.0	4390.0	5613.0	5709.9	5292.3	4260.7
67.5°	338.1	345.5	420.1	661.2	1208.1	1163.4	3253.9	5284.8	5404.2	5304.7	4240.8
70°	293.3	303.3	353.0	432.5	862.6	676.1	1730.1	4504.3	4646.0	4941.8	3947.5
72.5°	223.7	236.2	295.8	365.4	606.5	457.4	668.7	3199.2	3423.0	3820.7	3258.9
75°	161.6	166.5	218.8	298.3	425.1	353.0	288.4	1650.6	1876.8	2254.6	2025.9
77.5°	101.9	109.4	149.1	223.7	380.3	268.5	171.5	601.6	758.2	981.9	885.0
80°	59.7	62.1	89.5	154.1	256.0	198.9	109.4	213.8	258.5	365.4	236.2
82.5°	34.8	37.3	57.2	104.4	166.5	154.1	69.6	109.4	121.8	139.2	49.7
85°	12.4	12.4	39.8	62.1	89.5	77.1	39.8	57.2	62.1	77.1	14.9
87.5°	2.5	2.5	19.9	32.3	32.3	12.4	19.9	24.9	29.8	42.3	5.0
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°	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2
2.5°	847.7	840.2	832.7	822.8	815.3	800.4	793.0	783.0	780.5	775.6	773.1
5°	867.6	855.1	837.7	812.9	797.9	775.6	760.7	745.7	743.3	738.3	735.8
7.5°	894.9	882.5	860.1	832.7	807.9	785.5	768.1	745.7	723.4	706.0	706.0
10°	939.6	924.7	894.9	870.0	840.2	793.0	710.9	636.4	589.1	559.3	549.4
12.5°	994.3	974.4	942.1	912.3	855.1	706.0	579.2	482.2	402.7	365.4	358.0
15°	1051.5	1034.1	1001.8	957.0	785.5	589.1	422.6	273.4	196.4	161.6	166.5
17.5°	1113.6	1088.8	1051.5	962.0	691.1	440.0	226.2	139.2	119.3	114.3	114.3
20°	1178.3	1146.0	1108.7	907.3	569.3	253.6	129.3	104.4	96.9	89.5	92.0
22.5°	1247.9	1208.1	1150.9	825.3	407.7	136.7	99.4	84.5	74.6	72.1	72.1
25°	1322.5	1265.3	1193.2	730.8	236.2	104.4	82.0	67.1	59.7	57.2	54.7
27.5°	1402.0	1329.9	1203.1	606.5	134.2	87.0	64.6	52.2	44.7	42.3	42.3
30°	1474.1	1394.5	1180.8	449.9	101.9	72.1	52.2	39.8	34.8	34.8	34.8
32.5°	1571.0	1466.6	1111.2	280.9	82.0	57.2	39.8	32.3	27.3	27.3	27.3
35°	1697.8	1573.5	1041.6	149.1	67.1	47.2	32.3	24.9	22.4	22.4	22.4
37.5°	1871.8	1715.2	979.4	94.5	54.7	37.3	24.9	19.9	17.4	17.4	17.4
40°	2050.8	1884.2	892.4	72.1	44.7	29.8	19.9	14.9	12.4	12.4	14.9
42.5°	2274.5	2080.6	793.0	62.1	37.3	24.9	14.9	9.9	7.5	9.9	9.9
45°	2500.7	2287.0	653.8	52.2	32.3	19.9	9.9	5.0	5.0	7.5	7.5
47.5°	2734.4	2505.7	507.1	44.7	27.3	14.9	7.5	2.5	2.5	5.0	5.0
50°	2975.5	2722.0	377.8	39.8	22.4	12.4	5.0	2.5	0.0	2.5	2.5
52.5°	3216.6	2930.8	293.3	34.8	19.9	9.9	2.5	0.0	0.0	0.0	2.5
55°	3440.4	3119.7	233.7	29.8	17.4	7.5	2.5	0.0	0.0	0.0	0.0
57.5°	3629.3	3258.9	186.4	27.3	14.9	5.0	2.5	0.0	0.0	0.0	0.0
60°	3808.3	3368.3	144.2	22.4	12.4	5.0	2.5	0.0	0.0	0.0	0.0
62.5°	3935.0	3410.5	116.8	19.9	9.9	5.0	0.0	0.0	0.0	0.0	0.0
64°	3989.7	3415.5	101.9	17.4	9.9	5.0	2.5	0.0	0.0	0.0	0.0
65°	4022.1	3400.6	94.5	17.4	9.9	5.0	2.5	0.0	0.0	0.0	0.0
67.5°	4029.5	3318.6	72.1	14.9	7.5	2.5	2.5	0.0	0.0	0.0	0.0
70°	3810.8	3032.7	52.2	9.9	5.0	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	3184.3	2316.8	34.8	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
75°	1988.7	1001.8	19.9	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	822.8	303.3	12.4	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	188.9	72.1	5.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	44.7	12.4	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	9.9	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	2.5	2.5	2.5	2.5	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)