

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: P595419

Luminaire Tested: **IST-PA1F-830-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595419
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-830-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 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: 6513 lumens
Efficiency: N/A
Efficacy: 69.7 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

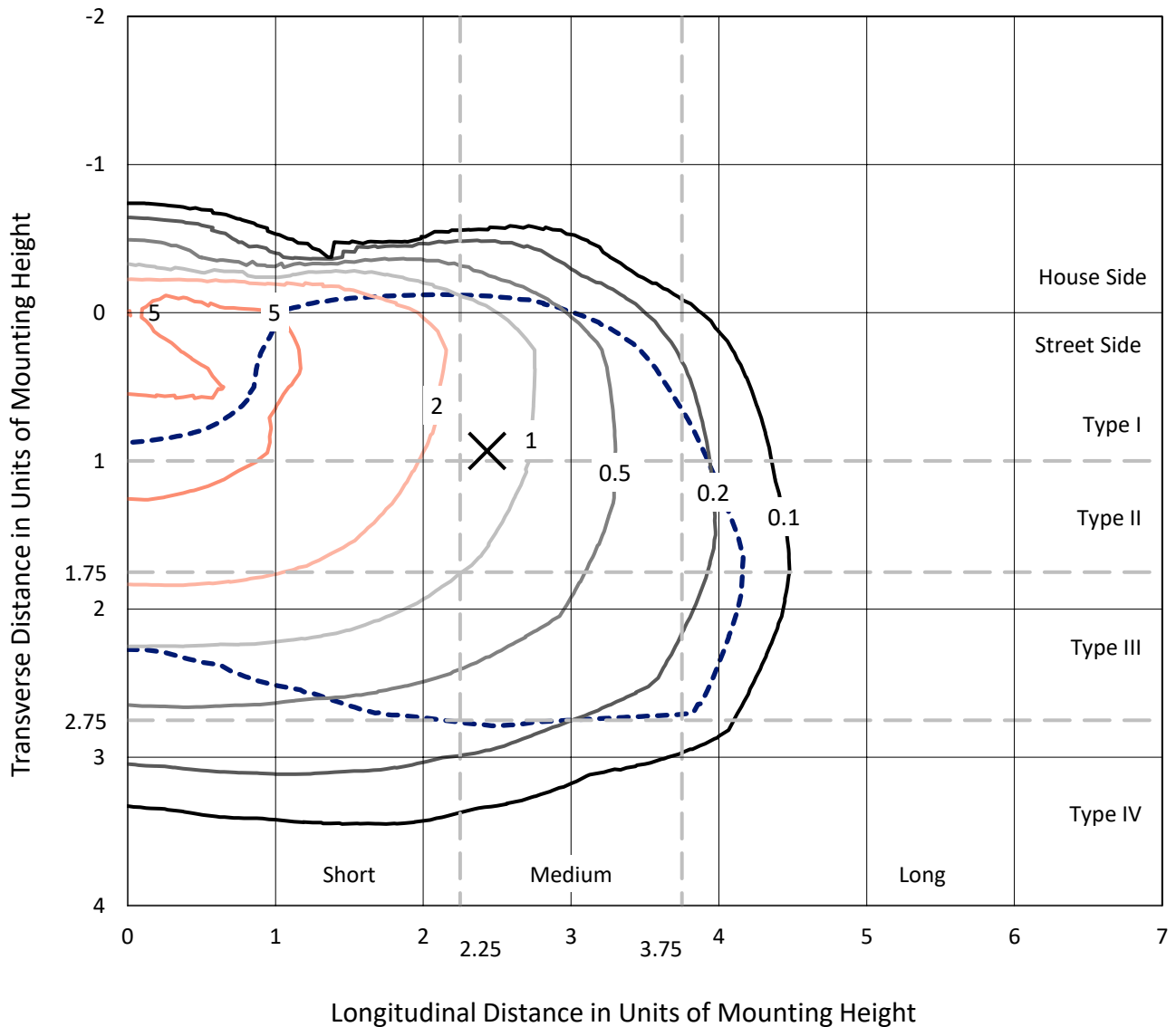
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

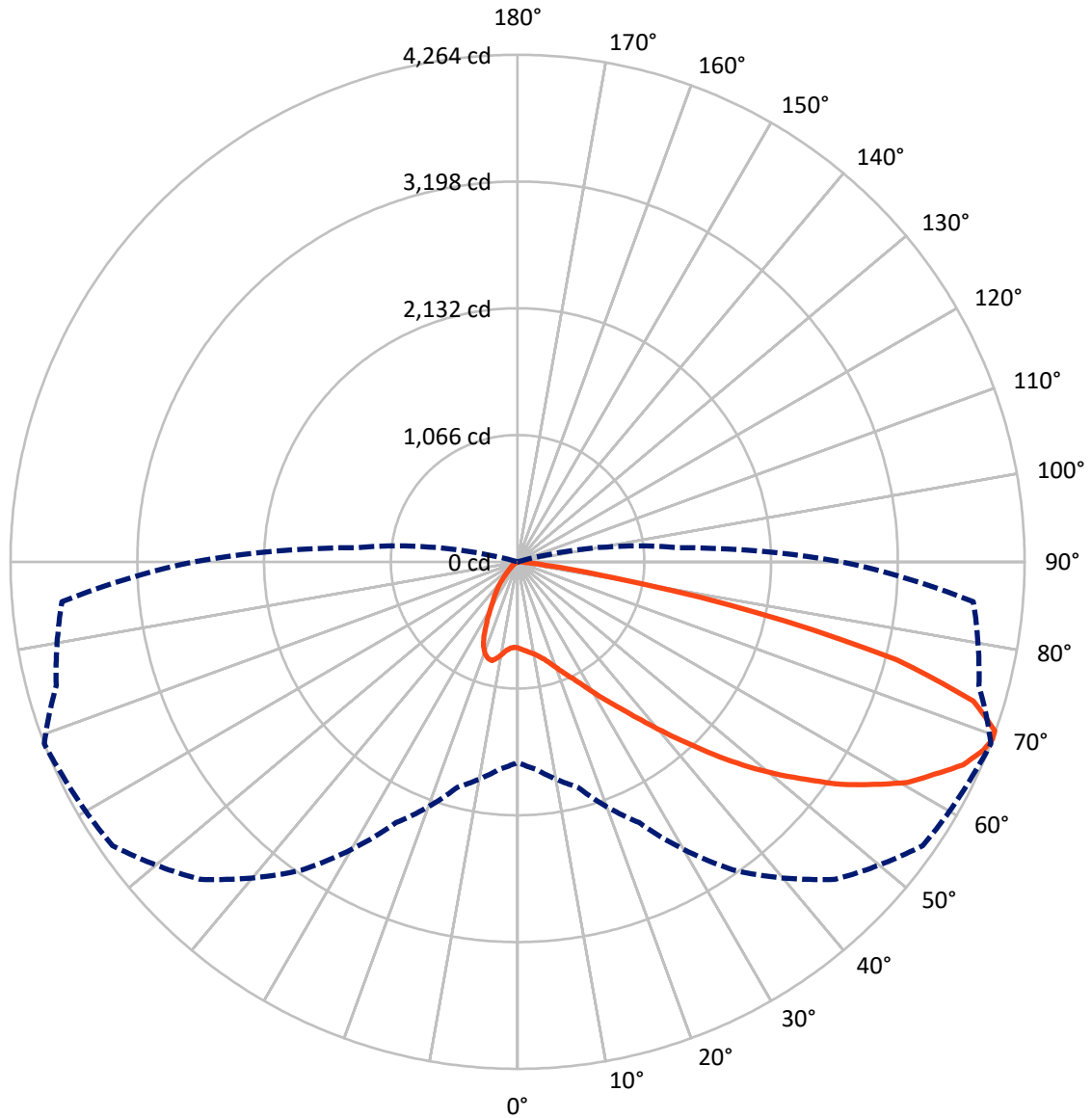
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.3 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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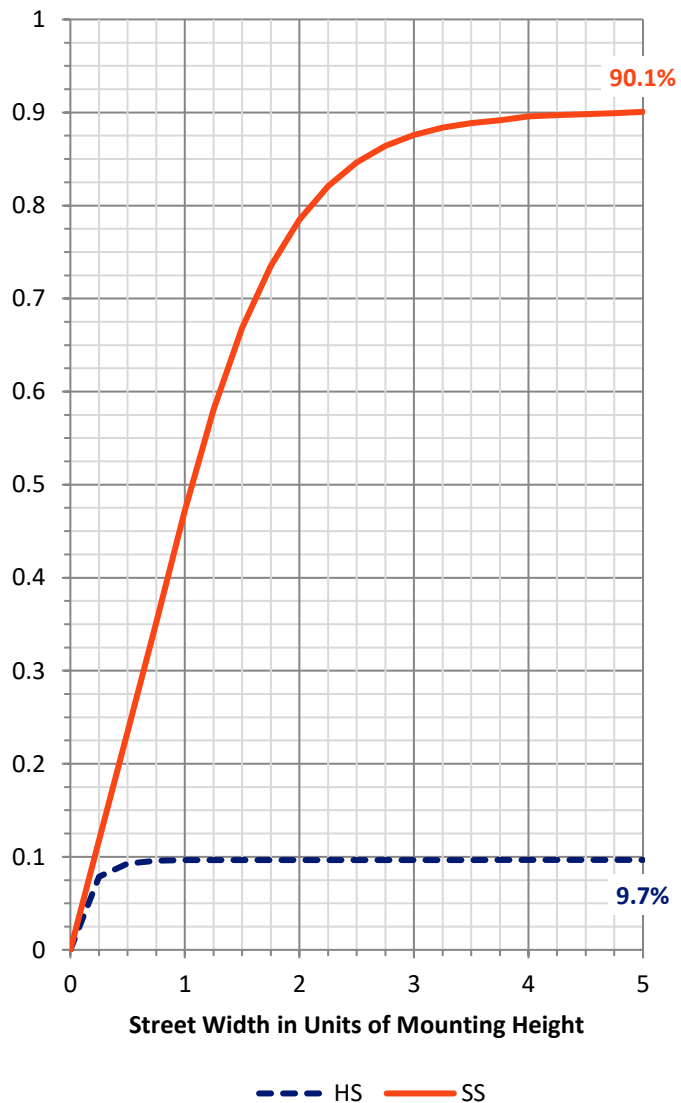
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	634.6	0.0	634.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5878.4	0.0	5878.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	6513.0	0.0	6513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.1
10°-20°	182.8	2.8
20°-30°	304.3	4.7
30°-40°	547.9	8.4
40°-50°	993.4	15.3
50°-60°	1552.4	23.8
60°-70°	1796.1	27.6
70°-80°	1004.4	15.4
80°-90°	62.7	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°	6513.0	100.0
0°-180°	6513.0	100.0

Coefficient of Utilization

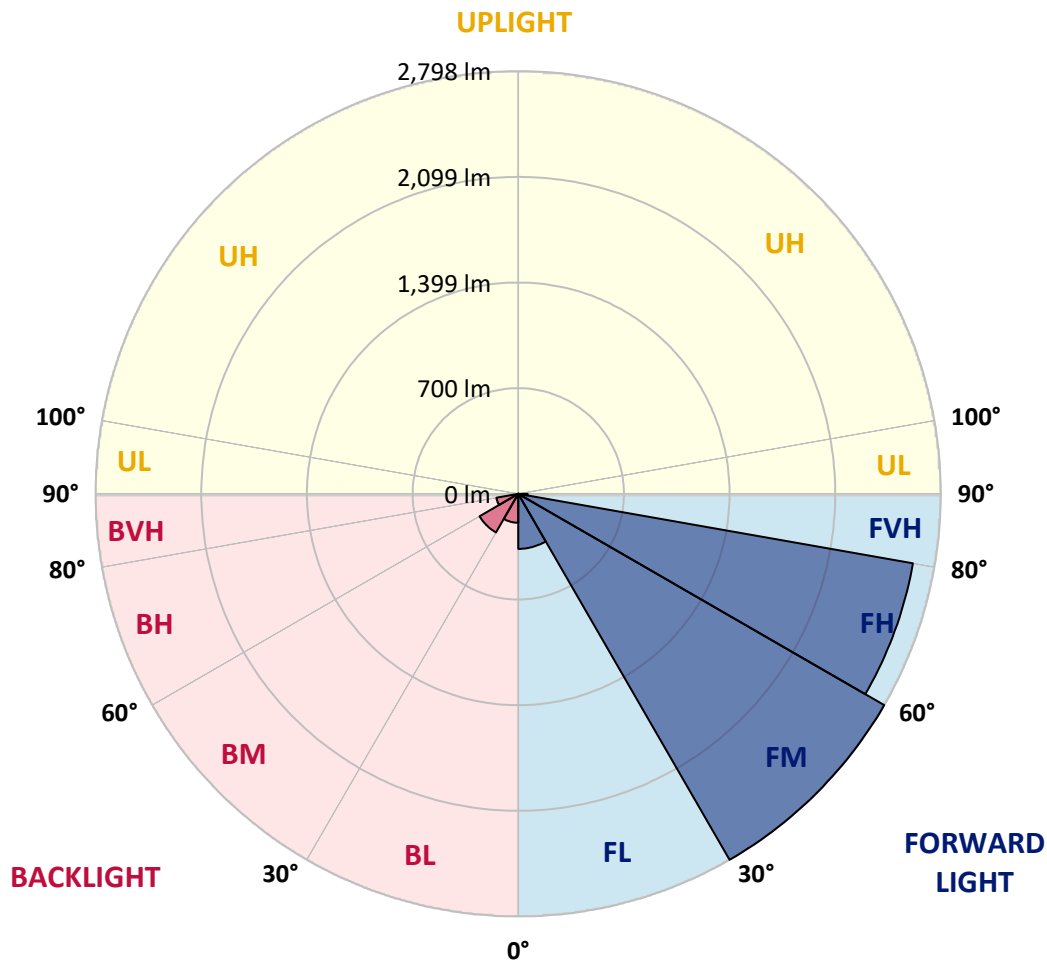


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.4	5.6			
FM (30°-60°)	2798.2	43.0			
FH (60°-80°)	2653.6	40.7			G2/5000
FVH (80°-90°)	62.2	1.0			G1/100
BL (0°-30°)	191.8	2.9	B1/500		
BM (30°-60°)	295.4	4.5	B1/1000		
BH (60°-80°)	146.9	2.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5
2.5°	750.5	750.5	750.5	746.2	748.3	746.2	744.0	737.5	739.6	737.5	731.0
5°	724.5	726.6	733.1	737.5	748.3	752.7	754.8	754.8	752.7	748.3	744.0
7.5°	674.6	674.6	681.1	694.1	715.8	739.6	759.2	770.0	772.2	772.2	765.7
10°	661.6	661.6	670.2	678.9	700.6	728.8	759.2	785.2	789.5	793.9	791.7
12.5°	655.1	657.2	665.9	681.1	709.3	735.3	767.8	804.7	817.7	828.6	830.8
15°	663.7	663.7	672.4	687.6	720.1	757.0	798.2	839.4	852.4	867.6	878.5
17.5°	676.7	681.1	685.4	700.6	731.0	776.5	830.8	885.0	900.2	919.7	928.4
20°	698.4	698.4	702.8	715.8	748.3	802.6	878.5	943.5	956.6	969.6	980.4
22.5°	724.5	726.6	726.6	737.5	774.4	832.9	919.7	999.9	1021.6	1028.1	1032.5
25°	802.6	798.2	783.0	776.5	804.7	867.6	969.6	1067.2	1091.0	1097.5	1088.9
27.5°	965.2	947.9	906.7	863.3	858.9	921.9	1036.8	1151.8	1177.8	1180.0	1149.6
30°	1169.1	1171.3	1104.1	1010.8	947.9	980.4	1110.6	1258.1	1284.1	1273.2	1225.5
32.5°	1420.7	1409.9	1360.0	1225.5	1099.7	1071.5	1190.8	1368.7	1399.0	1381.7	1318.8
35°	1635.5	1642.0	1581.2	1461.9	1303.6	1212.5	1288.4	1492.3	1529.2	1498.8	1420.7
37.5°	1815.5	1824.2	1787.3	1689.7	1548.7	1405.6	1416.4	1637.6	1687.5	1657.2	1559.6
40°	2015.1	2021.6	2006.4	1900.1	1774.3	1635.5	1587.8	1804.7	1871.9	1830.7	1728.7
42.5°	2234.1	2258.0	2232.0	2147.4	2017.2	1897.9	1826.3	2008.6	2075.8	2049.8	1913.1
45°	2533.5	2535.6	2505.3	2420.7	2286.2	2188.6	2101.8	2225.5	2312.2	2279.7	2119.2
47.5°	2754.7	2769.9	2752.5	2694.0	2585.5	2520.4	2401.2	2464.1	2555.2	2513.9	2331.7
50°	2923.9	2965.1	2949.9	2967.3	2913.0	2884.9	2702.7	2711.3	2800.3	2765.6	2548.6
52.5°	3017.2	3069.2	3073.6	3162.5	3208.0	3277.5	2995.5	2982.5	3038.9	3008.5	2769.9
55°	3004.1	3017.2	3125.6	3288.3	3466.2	3624.5	3281.8	3227.6	3305.6	3221.1	3004.1
57.5°	2878.3	2910.9	3101.8	3303.5	3618.0	3847.9	3529.1	3468.3	3533.4	3420.6	3244.9
60°	2698.3	2746.0	2991.1	3279.6	3706.9	3982.4	3769.8	3709.1	3767.7	3631.0	3518.2
62.5°	2535.6	2557.3	2782.9	3179.8	3654.9	3975.9	3956.4	3900.0	3934.7	3791.5	3752.5
65°	2303.5	2312.2	2535.6	2999.8	3539.9	3932.5	4058.3	4080.0	4116.9	3926.0	3919.5
67.5°	1945.6	1965.2	2186.4	2685.3	3349.0	3847.9	4138.6	4181.9	4225.3	3997.6	3949.9
69°	1687.5	1750.4	1963.0	2420.7	3164.7	3776.3	4160.3	4229.7	4264.4	4017.1	3847.9
70°	1477.1	1531.4	1776.5	2216.8	3002.0	3696.1	4175.4	4223.2	4257.9	3975.9	3680.9
72.5°	741.8	811.2	1147.4	1618.1	2386.0	3329.5	4097.4	4045.3	4008.4	3657.0	2978.1
75°	286.3	297.2	492.4	921.9	1492.3	2444.5	3498.7	3401.1	3292.6	2774.2	1765.6
77.5°	158.3	156.2	214.7	407.8	635.5	1195.2	2366.4	2210.3	2060.6	1490.1	715.8
80°	67.2	71.6	93.3	195.2	334.0	414.3	1149.6	1021.6	813.4	472.9	171.4
82.5°	41.2	43.4	65.1	119.3	232.1	158.3	373.1	318.9	234.3	128.0	41.2
85°	13.0	15.2	45.6	80.3	112.8	65.1	84.6	73.7	65.1	54.2	13.0
87.5°	2.2	2.2	17.4	43.4	30.4	10.8	8.7	15.2	23.9	26.0	4.3
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°	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5
2.5°	728.8	724.5	720.1	718.0	718.0	713.6	711.5	709.3	709.3	707.1	707.1
5°	737.5	733.1	728.8	726.6	722.3	720.1	720.1	720.1	718.0	720.1	722.3
7.5°	759.2	752.7	750.5	748.3	748.3	741.8	731.0	702.8	674.6	665.9	657.2
10°	789.5	787.4	787.4	787.4	772.2	715.8	637.7	568.3	531.4	501.1	501.1
12.5°	832.9	832.9	830.8	824.2	746.2	609.5	488.0	383.9	323.2	288.5	292.8
15°	880.6	878.5	882.8	841.6	657.2	470.7	295.0	208.2	175.7	171.4	171.4
17.5°	930.5	934.9	930.5	796.0	540.1	290.7	175.7	158.3	154.0	154.0	154.0
20°	982.6	978.2	971.7	718.0	392.6	182.2	151.8	147.5	143.2	141.0	141.0
22.5°	1034.6	1030.3	986.9	618.2	245.1	149.7	143.2	134.5	128.0	125.8	125.8
25°	1084.5	1084.5	958.7	490.2	167.0	141.0	130.1	121.5	115.0	108.5	108.5
27.5°	1147.4	1151.8	913.2	342.7	141.0	130.1	117.1	104.1	95.4	91.1	91.1
30°	1219.0	1225.5	839.4	223.4	128.0	115.0	101.9	86.8	73.7	69.4	67.2
32.5°	1303.6	1310.1	754.8	147.5	115.0	99.8	84.6	65.1	52.1	49.9	47.7
35°	1412.1	1396.9	652.9	117.1	99.8	84.6	65.1	45.6	36.9	34.7	34.7
37.5°	1546.5	1514.0	535.8	101.9	84.6	67.2	47.7	30.4	23.9	23.9	21.7
40°	1700.5	1609.4	414.3	91.1	71.6	52.1	30.4	19.5	15.2	15.2	15.2
42.5°	1869.7	1689.7	295.0	80.3	58.6	36.9	19.5	10.8	8.7	8.7	8.7
45°	2064.9	1763.4	201.7	69.4	49.9	26.0	10.8	4.3	4.3	4.3	4.3
47.5°	2260.2	1811.2	134.5	60.7	36.9	15.2	6.5	2.2	2.2	2.2	2.2
50°	2457.5	1848.0	104.1	52.1	26.0	8.7	2.2	0.0	0.0	0.0	0.0
52.5°	2633.2	1874.1	84.6	43.4	17.4	6.5	2.2	0.0	0.0	0.0	0.0
55°	2785.1	1876.2	73.7	34.7	13.0	4.3	0.0	0.0	0.0	0.0	0.0
57.5°	2939.1	1858.9	62.9	26.0	8.7	2.2	0.0	0.0	0.0	0.0	0.0
60°	3032.3	1813.3	49.9	19.5	6.5	2.2	0.0	0.0	0.0	0.0	0.0
62.5°	3088.7	1737.4	39.0	13.0	4.3	2.2	0.0	0.0	0.0	0.0	0.0
65°	3056.2	1642.0	28.2	8.7	4.3	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	2904.4	1494.5	19.5	6.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
69°	2724.3	1360.0	17.4	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
70°	2566.0	1255.9	15.2	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	1910.9	809.1	13.0	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
75°	1073.7	271.1	8.7	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	403.4	69.4	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	88.9	17.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)