

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: P595361

Luminaire Tested: **IST-PA1F-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
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-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8280 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

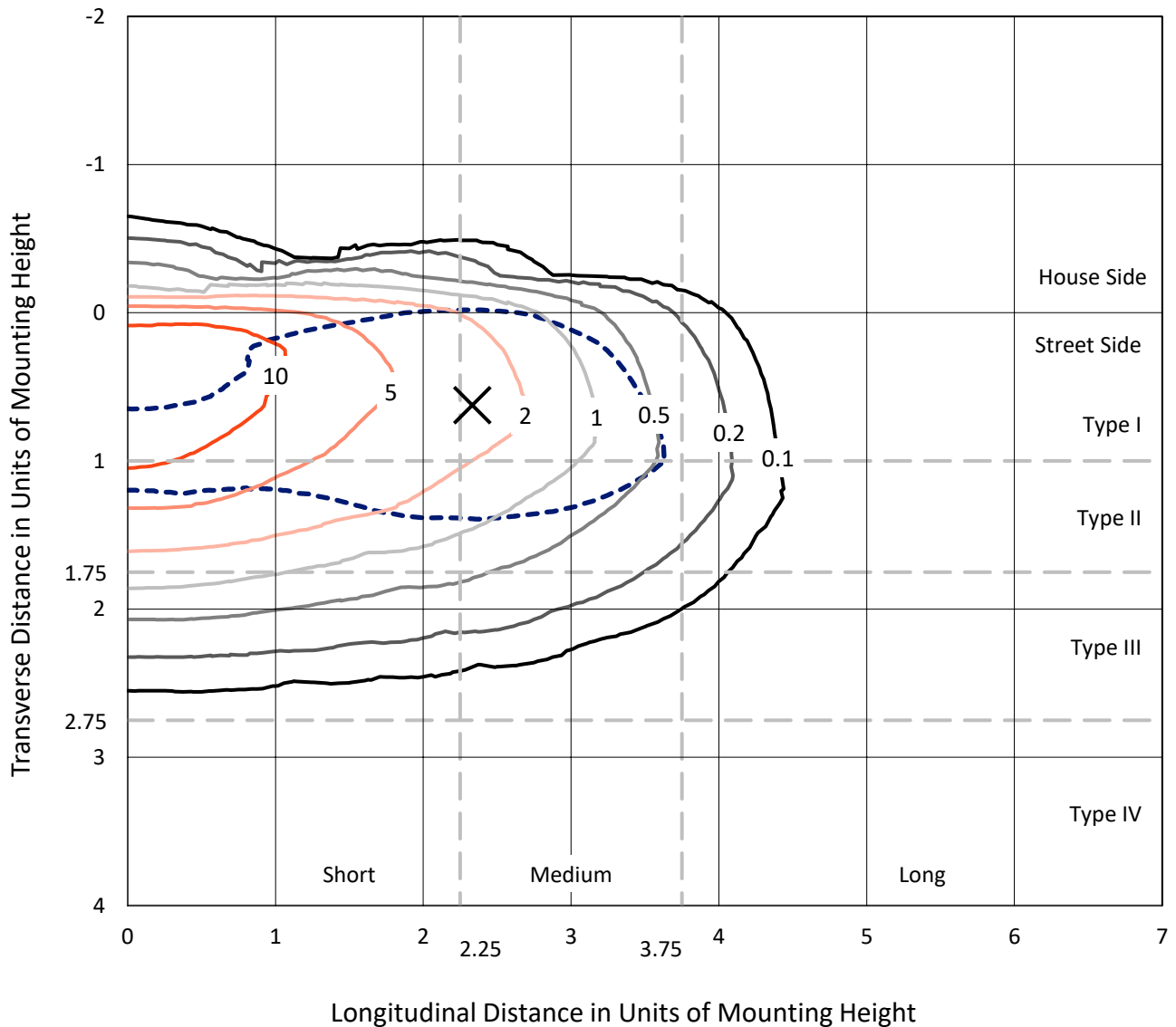
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

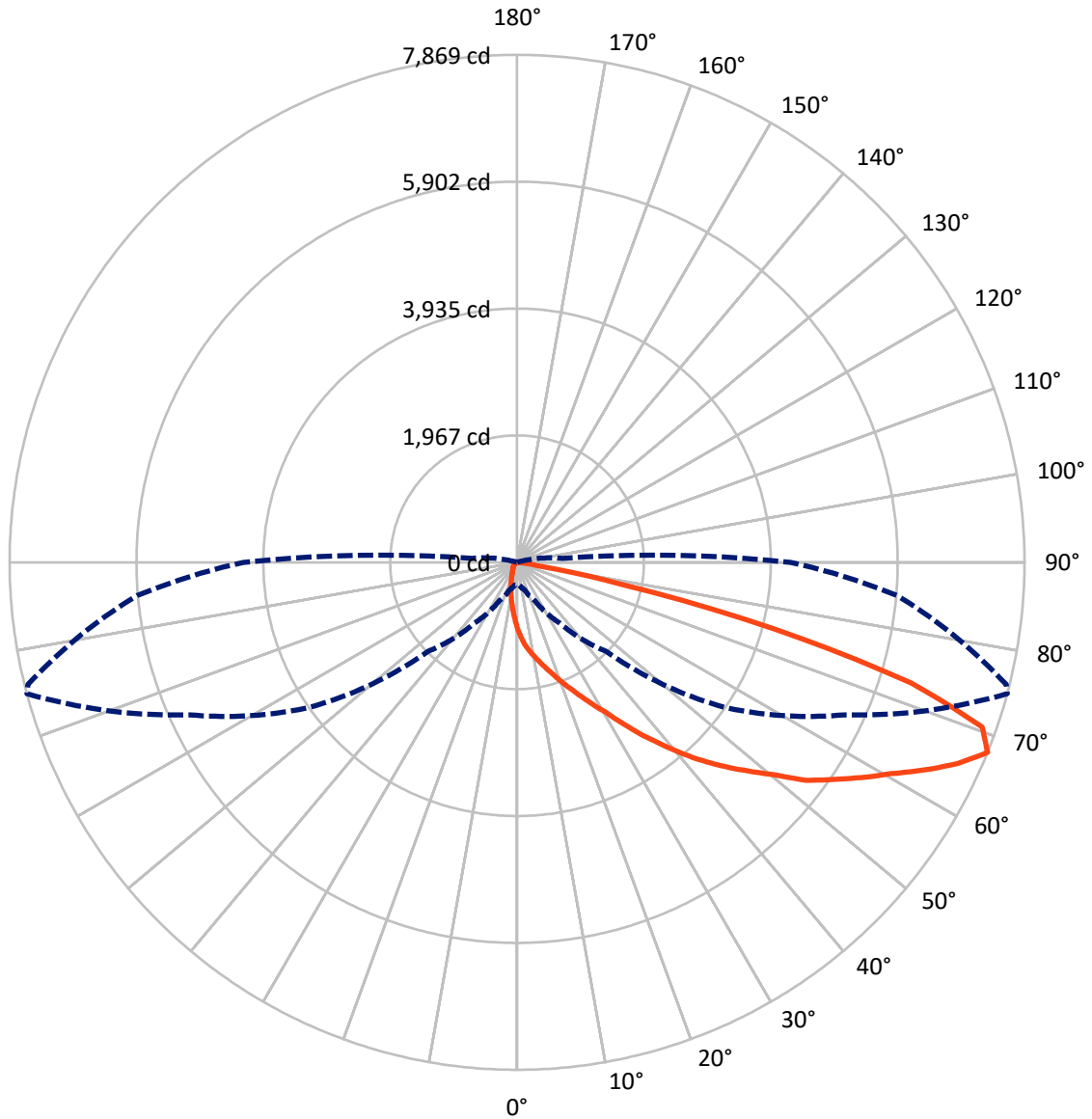
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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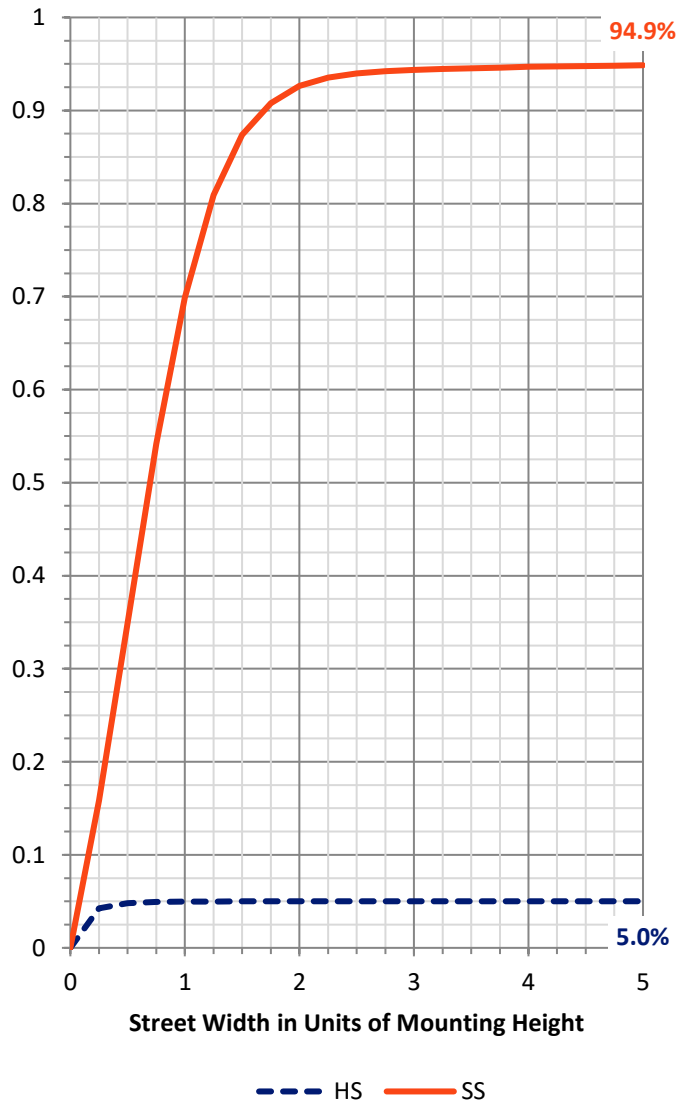
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	417.4	0.0	417.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7862.6	0.0	7862.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	8280.0	0.0	8280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	1.1
10°-20°	299.5	3.6
20°-30°	602.0	7.3
30°-40°	1138.8	13.8
40°-50°	1703.6	20.6
50°-60°	1966.9	23.8
60°-70°	1743.5	21.1
70°-80°	704.7	8.5
80°-90°	28.1	0.3
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°	8280.0	100.0
0°-180°	8280.0	100.0

Coefficient of Utilization

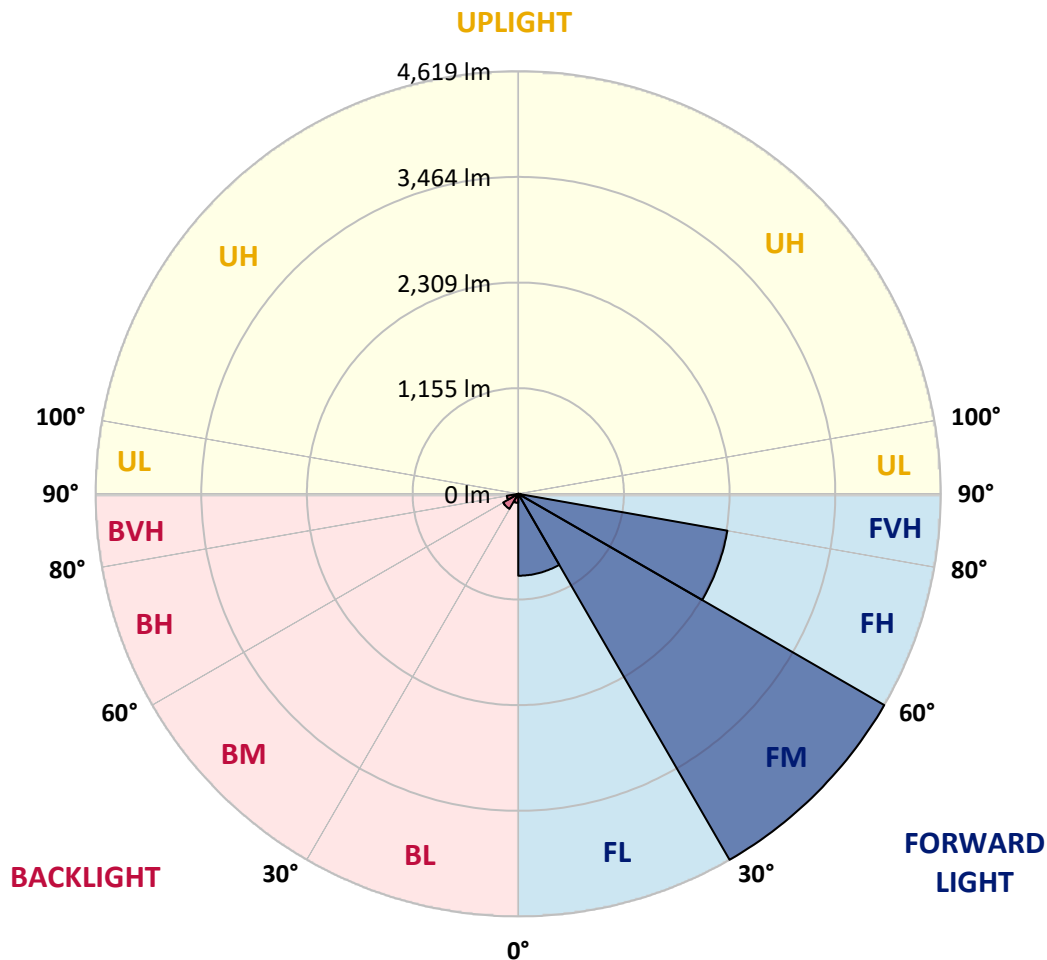


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.2	10.8			
FM (30°-60°)	4618.9	55.8			
FH (60°-80°)	2321.6	28.0			G2/5000
FVH (80°-90°)	26.9	0.3			G1/100
BL (0°-30°)	99.2	1.2	B0/110		
BM (30°-60°)	190.4	2.3	B0/220		
BH (60°-80°)	126.6	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1431.7	1436.6	1426.7	1404.3	1384.4	1337.2	1299.9	1232.8	1160.7	1160.7	1073.7
5°	1600.7	1595.7	1590.7	1573.3	1558.4	1518.7	1468.9	1396.9	1285.0	1275.1	1130.9
7.5°	1682.7	1677.7	1667.8	1660.3	1660.3	1633.0	1585.8	1511.2	1386.9	1377.0	1183.1
10°	1779.6	1769.7	1769.7	1749.8	1744.8	1712.5	1687.7	1623.0	1486.3	1473.9	1242.8
12.5°	1894.0	1884.0	1886.5	1869.1	1861.7	1826.9	1792.1	1729.9	1593.2	1580.8	1312.4
15°	1958.6	1953.6	1968.5	1971.0	1976.0	1946.2	1913.9	1849.2	1712.5	1695.1	1394.4
17.5°	1995.9	1995.9	2013.3	2045.6	2082.9	2065.5	2040.6	1988.4	1834.3	1824.4	1481.4
20°	2068.0	2060.5	2090.3	2120.2	2167.4	2182.3	2174.8	2135.1	1981.0	1951.1	1575.8
22.5°	2187.3	2177.3	2204.7	2241.9	2299.1	2304.1	2309.1	2289.2	2130.1	2100.3	1675.2
25°	2468.1	2443.3	2418.4	2413.4	2435.8	2455.7	2440.8	2455.7	2299.1	2271.8	1782.1
27.5°	3014.9	2972.7	2853.4	2721.7	2629.7	2647.1	2599.9	2627.2	2493.0	2458.2	1881.5
30°	3539.4	3497.1	3400.2	3166.6	2955.3	2860.8	2791.2	2781.3	2691.8	2652.1	1995.9
32.5°	3904.8	3877.4	3812.8	3656.2	3392.7	3151.6	3017.4	2970.2	2957.8	2895.6	2142.5
35°	4153.3	4128.5	4083.7	3957.0	3763.1	3494.7	3263.5	3159.1	3253.6	3179.0	2309.1
37.5°	4302.4	4285.1	4235.3	4148.3	4044.0	3867.5	3569.2	3402.7	3551.8	3482.2	2522.8
40°	4411.8	4367.1	4332.3	4265.2	4230.4	4173.2	3917.2	3656.2	3874.9	3802.9	2734.1
42.5°	4421.8	4401.9	4374.5	4334.8	4339.7	4377.0	4287.5	3949.5	4200.5	4133.4	2957.8
45°	4419.3	4399.4	4379.5	4339.7	4364.6	4503.8	4585.8	4257.7	4518.7	4449.1	3193.9
47.5°	4347.2	4332.3	4337.2	4337.2	4369.6	4558.5	4817.0	4570.9	4836.8	4769.7	3479.7
50°	4093.7	4108.6	4208.0	4260.2	4317.4	4560.9	4978.5	4899.0	5179.8	5132.6	3755.6
52.5°	3290.8	3375.3	3778.0	4053.9	4220.4	4511.2	5082.9	5244.5	5614.8	5542.7	4068.8
55°	2515.4	2520.3	2908.1	3549.3	4029.0	4421.8	5142.6	5478.1	5945.4	5905.6	4344.7
57.5°	2040.6	2038.1	2229.5	2806.2	3531.9	4280.1	5157.5	5649.6	6295.8	6221.3	4662.9
60°	1667.8	1657.8	1772.2	2127.6	2885.7	3947.0	5102.8	5788.8	6656.2	6628.9	4995.9
62.5°	1205.5	1215.4	1367.0	1642.9	2224.5	3333.1	4986.0	5831.0	7091.2	7063.9	5368.7
65°	693.5	723.3	889.8	1183.1	1705.1	2607.3	4652.9	5798.7	7516.2	7513.8	5714.2
67.5°	348.0	350.5	439.9	661.2	1145.8	1951.1	3917.2	5594.9	7869.2	7814.5	5913.1
70°	223.7	228.7	258.5	340.5	633.8	1352.1	2992.6	5018.3	7648.0	7628.1	5622.3
72.5°	171.5	176.5	201.3	223.7	330.6	768.0	2025.7	3899.8	6385.3	6330.6	4384.5
75°	134.2	136.7	161.6	181.4	221.2	360.4	1016.6	2430.8	4113.5	3971.9	2495.5
77.5°	106.9	109.4	121.8	144.2	169.0	201.3	300.7	1093.6	1672.8	1493.8	810.3
80°	69.6	72.1	92.0	111.8	144.2	131.7	116.8	315.7	357.9	323.1	144.2
82.5°	39.8	42.3	62.1	89.5	109.4	74.6	67.1	92.0	84.5	82.0	44.7
85°	12.4	12.4	42.3	62.1	49.7	22.4	42.3	32.3	27.3	24.9	14.9
87.5°	2.5	2.5	19.9	22.4	7.5	2.5	5.0	7.5	9.9	12.4	7.5
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°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1031.5	981.8	889.8	810.3	733.2	666.1	618.9	576.6	546.8	539.4	526.9
5°	1039.0	942.0	765.5	616.4	487.2	382.8	323.1	283.4	263.5	251.0	251.0
7.5°	1046.4	902.2	648.7	449.9	308.2	233.6	196.4	179.0	171.5	169.0	166.5
10°	1061.3	872.4	549.3	323.1	211.3	176.5	161.6	154.1	149.1	146.6	146.6
12.5°	1086.2	847.6	457.3	238.6	174.0	156.6	146.6	136.7	131.7	129.2	129.2
15°	1118.5	830.2	377.8	191.4	159.1	141.7	129.2	119.3	111.8	109.4	109.4
17.5°	1163.2	817.7	310.7	169.0	146.6	126.8	111.8	101.9	94.5	92.0	92.0
20°	1208.0	817.7	256.0	156.6	134.2	111.8	96.9	84.5	77.1	74.6	74.6
22.5°	1267.6	815.3	213.8	144.2	119.3	96.9	82.0	67.1	62.1	59.7	59.7
25°	1317.3	815.3	183.9	131.7	104.4	84.5	67.1	54.7	49.7	47.2	47.2
27.5°	1377.0	807.8	156.6	116.8	89.5	69.6	54.7	44.7	39.8	37.3	37.3
30°	1429.2	797.9	139.2	104.4	77.1	57.2	44.7	34.8	32.3	32.3	32.3
32.5°	1516.2	790.4	124.3	89.5	64.6	47.2	34.8	27.3	24.9	24.9	24.9
35°	1620.6	790.4	114.3	77.1	54.7	39.8	27.3	22.4	19.9	19.9	19.9
37.5°	1757.3	797.9	101.9	67.1	44.7	32.3	22.4	17.4	14.9	14.9	14.9
40°	1901.4	815.3	92.0	59.7	39.8	24.9	17.4	12.4	9.9	12.4	12.4
42.5°	2072.9	832.7	82.0	52.2	32.3	19.9	12.4	7.5	5.0	7.5	7.5
45°	2241.9	850.1	77.1	44.7	27.3	14.9	7.5	5.0	2.5	5.0	5.0
47.5°	2450.7	892.3	72.1	39.8	22.4	12.4	5.0	2.5	0.0	2.5	2.5
50°	2691.8	939.5	64.6	32.3	17.4	9.9	5.0	0.0	0.0	0.0	0.0
52.5°	2923.0	979.3	57.2	27.3	14.9	7.5	2.5	0.0	0.0	0.0	0.0
55°	3154.1	1004.2	49.7	22.4	12.4	7.5	2.5	0.0	0.0	0.0	0.0
57.5°	3402.7	1019.1	44.7	19.9	9.9	5.0	2.5	0.0	0.0	0.0	0.0
60°	3678.6	1019.1	37.3	17.4	7.5	5.0	2.5	0.0	0.0	0.0	0.0
62.5°	3984.3	989.2	34.8	14.9	7.5	5.0	2.5	0.0	0.0	0.0	0.0
65°	4232.9	882.4	29.8	12.4	7.5	5.0	2.5	0.0	0.0	0.0	0.0
67.5°	4242.8	698.4	27.3	9.9	7.5	5.0	2.5	0.0	0.0	0.0	0.0
70°	3783.0	477.2	22.4	7.5	5.0	5.0	2.5	0.0	0.0	0.0	0.0
72.5°	2831.0	256.0	19.9	7.5	5.0	2.5	2.5	0.0	0.0	0.0	0.0
75°	1526.1	99.4	12.4	7.5	5.0	2.5	2.5	0.0	0.0	0.0	0.0
77.5°	444.9	49.7	7.5	5.0	5.0	2.5	2.5	0.0	0.0	0.0	0.0
80°	82.0	24.9	5.0	5.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	9.9	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	9.9	5.0	2.5	2.5	2.5	2.5	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)