

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: P595365

Luminaire Tested: **IST-PA1F-730-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595365
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-730-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 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: 7465 lumens
Efficiency: N/A
Efficacy: 79.8 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

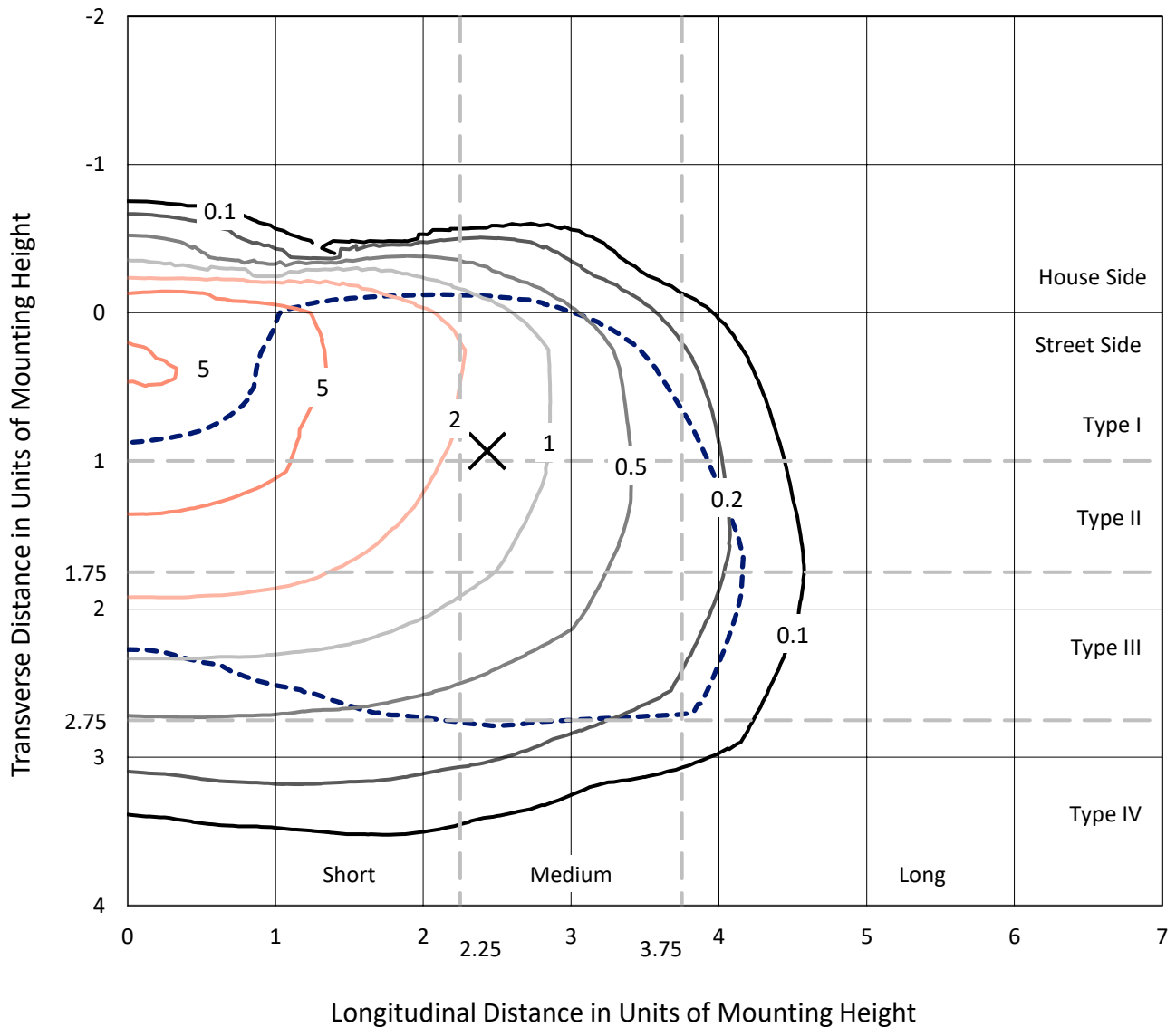
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

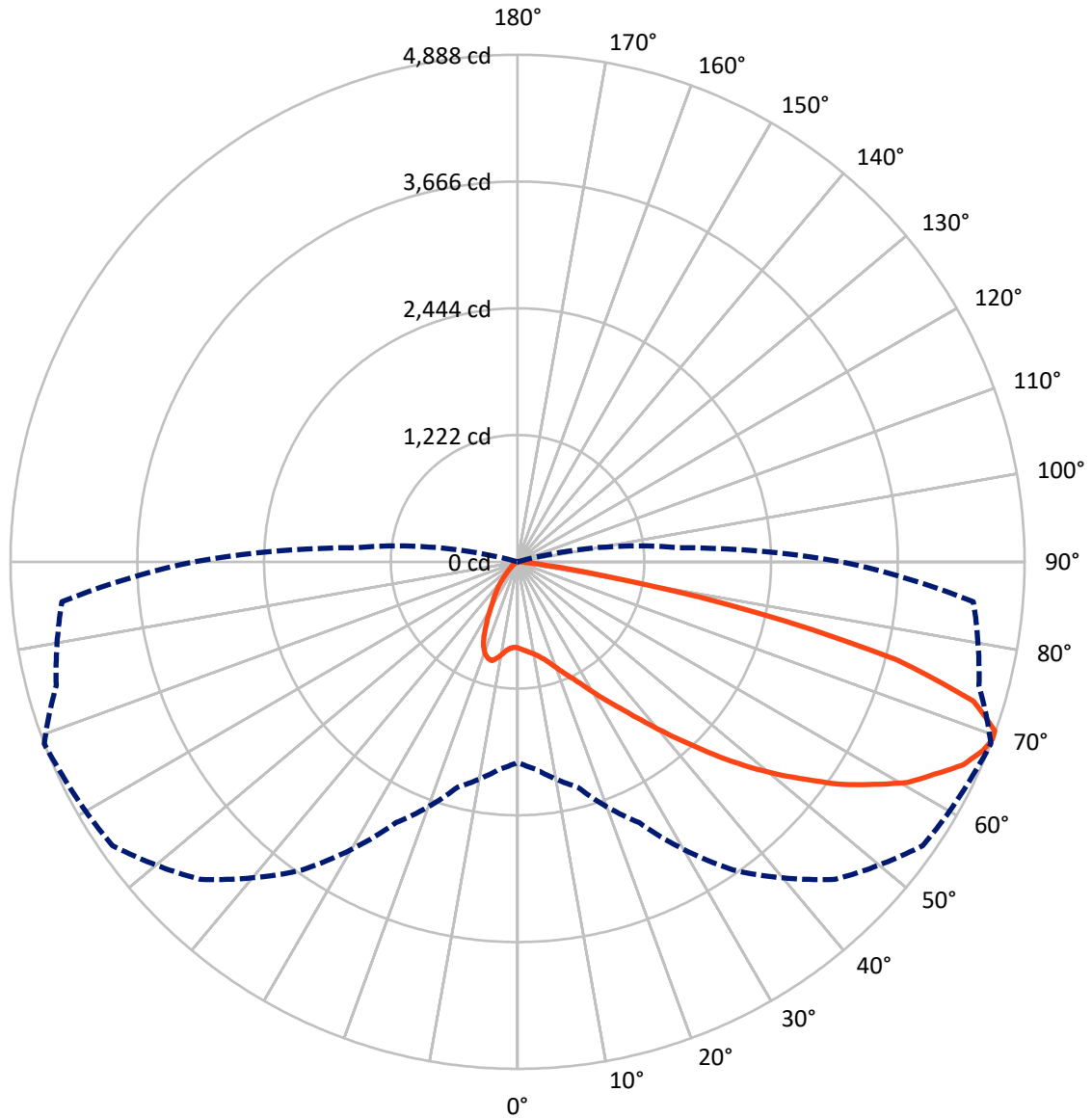
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.2 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	727.4	0.0	727.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	6737.6	0.0	6737.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	7465.0	0.0	7465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.1
10°-20°	209.5	2.8
20°-30°	348.8	4.7
30°-40°	627.9	8.4
40°-50°	1138.6	15.3
50°-60°	1779.3	23.8
60°-70°	2058.6	27.6
70°-80°	1151.2	15.4
80°-90°	71.9	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°	7465.0	100.0
0°-180°	7465.0	100.0

Coefficient of Utilization

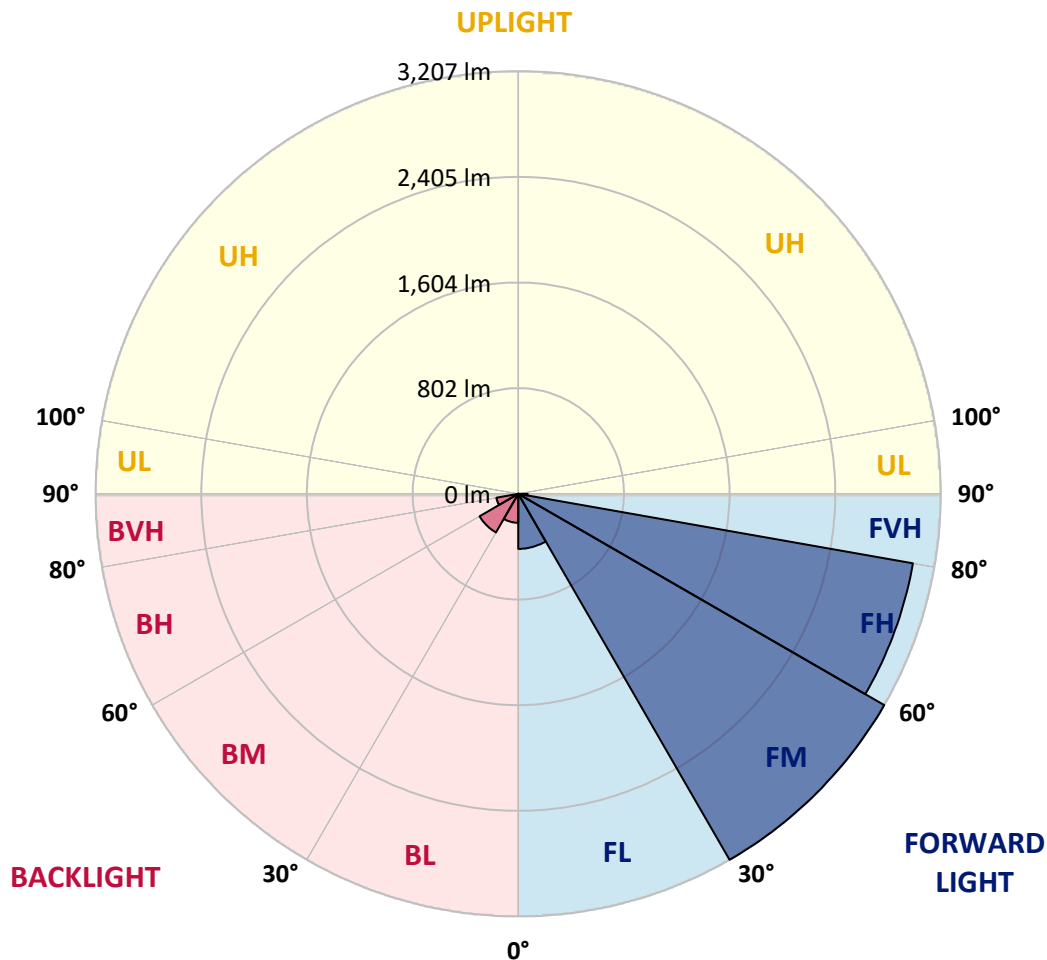


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.6	5.6			
FM (30°-60°)	3207.2	43.0			
FH (60°-80°)	3041.4	40.7			G2/5000
FVH (80°-90°)	71.3	1.0			G1/100
BL (0°-30°)	219.8	2.9	B1/500		
BM (30°-60°)	338.6	4.5	B1/1000		
BH (60°-80°)	168.4	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°	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4
2.5°	860.2	860.2	860.2	855.2	857.7	855.2	852.7	845.3	847.8	845.3	837.8
5°	830.4	832.8	840.3	845.3	857.7	862.7	865.2	865.2	862.7	857.7	852.7
7.5°	773.2	773.2	780.6	795.6	820.4	847.8	870.1	882.6	885.1	885.1	877.6
10°	758.3	758.3	768.2	778.2	803.0	835.3	870.1	900.0	904.9	909.9	907.4
12.5°	750.8	753.3	763.2	780.6	813.0	842.8	880.1	922.3	937.3	949.7	952.2
15°	760.7	760.7	770.7	788.1	825.4	867.7	914.9	962.1	977.0	994.4	1006.9
17.5°	775.7	780.6	785.6	803.0	837.8	890.0	952.2	1014.3	1031.7	1054.1	1064.1
20°	800.5	800.5	805.5	820.4	857.7	919.9	1006.9	1081.5	1096.4	1111.3	1123.7
22.5°	830.4	832.8	832.8	845.3	887.5	954.7	1054.1	1146.1	1171.0	1178.4	1183.4
25°	919.9	914.9	897.5	890.0	922.3	994.4	1111.3	1223.2	1250.5	1258.0	1248.0
27.5°	1106.3	1086.4	1039.2	989.5	984.5	1056.6	1188.4	1320.1	1350.0	1352.4	1317.6
30°	1340.0	1342.5	1265.4	1158.5	1086.4	1123.7	1272.9	1441.9	1471.8	1459.3	1404.7
32.5°	1628.4	1616.0	1558.8	1404.7	1260.5	1228.1	1364.9	1568.7	1603.5	1583.7	1511.6
35°	1874.5	1882.0	1812.4	1675.6	1494.2	1389.7	1476.7	1710.4	1752.7	1717.9	1628.4
37.5°	2080.9	2090.8	2048.6	1936.7	1775.1	1611.0	1623.4	1877.0	1934.2	1899.4	1787.5
40°	2309.6	2317.1	2299.7	2177.8	2033.6	1874.5	1819.8	2068.4	2145.5	2098.3	1981.4
42.5°	2560.7	2588.0	2558.2	2461.2	2312.1	2175.3	2093.3	2302.1	2379.2	2349.4	2192.7
45°	2903.8	2906.3	2871.5	2774.5	2620.4	2508.5	2409.0	2550.7	2650.2	2612.9	2428.9
47.5°	3157.4	3174.8	3154.9	3087.7	2963.4	2888.9	2752.1	2824.2	2928.6	2881.4	2672.6
50°	3351.3	3398.5	3381.1	3401.0	3338.8	3306.5	3097.7	3107.6	3209.6	3169.8	2921.2
52.5°	3458.2	3517.8	3522.8	3624.7	3677.0	3756.5	3433.3	3418.4	3483.0	3448.2	3174.8
55°	3443.3	3458.2	3582.5	3768.9	3972.8	4154.3	3761.5	3699.3	3788.8	3691.9	3443.3
57.5°	3299.1	3336.4	3555.1	3786.3	4146.8	4410.4	4044.9	3975.3	4049.9	3920.6	3719.2
60°	3092.7	3147.4	3428.3	3759.0	4248.8	4564.5	4320.9	4251.2	4318.4	4161.7	4032.5
62.5°	2906.3	2931.1	3189.7	3644.6	4189.1	4557.0	4534.7	4470.0	4509.8	4345.7	4301.0
65°	2640.2	2650.2	2906.3	3438.3	4057.3	4507.3	4651.5	4676.4	4718.6	4499.9	4492.4
67.5°	2230.0	2252.4	2506.0	3077.8	3838.6	4410.4	4743.5	4793.2	4842.9	4581.9	4527.2
69°	1934.2	2006.3	2249.9	2774.5	3627.2	4328.3	4768.4	4847.9	4887.7	4604.3	4410.4
70°	1693.0	1755.2	2036.1	2540.8	3440.8	4236.3	4785.8	4840.5	4880.2	4557.0	4218.9
72.5°	850.2	929.8	1315.2	1854.6	2734.7	3816.2	4696.3	4636.6	4594.3	4191.6	3413.4
75°	328.2	340.6	564.3	1056.6	1710.4	2801.8	4010.1	3898.2	3773.9	3179.7	2023.7
77.5°	181.5	179.0	246.1	467.4	728.4	1369.8	2712.3	2533.3	2361.8	1708.0	820.4
80°	77.1	82.0	106.9	223.7	382.9	474.8	1317.6	1171.0	932.3	542.0	196.4
82.5°	47.2	49.7	74.6	136.7	266.0	181.5	427.6	365.5	268.5	146.7	47.2
85°	14.9	17.4	52.2	92.0	129.3	74.6	97.0	84.5	74.6	62.2	14.9
87.5°	2.5	2.5	19.9	49.7	34.8	12.4	9.9	17.4	27.3	29.8	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°	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4	830.4
2.5°	835.3	830.4	825.4	822.9	822.9	817.9	815.4	813.0	813.0	810.5	810.5
5°	845.3	840.3	835.3	832.8	827.9	825.4	825.4	825.4	822.9	825.4	827.9
7.5°	870.1	862.7	860.2	857.7	857.7	850.2	837.8	805.5	773.2	763.2	753.3
10°	904.9	902.5	902.5	902.5	885.1	820.4	730.9	651.4	609.1	574.3	574.3
12.5°	954.7	954.7	952.2	944.7	855.2	698.6	559.4	440.0	370.4	330.7	335.6
15°	1009.4	1006.9	1011.8	964.6	753.3	539.5	338.1	238.7	201.4	196.4	196.4
17.5°	1066.5	1071.5	1066.5	912.4	619.0	333.1	201.4	181.5	176.5	176.5	176.5
20°	1126.2	1121.2	1113.8	822.9	450.0	208.8	174.0	169.1	164.1	161.6	161.6
22.5°	1185.9	1180.9	1131.2	708.5	280.9	171.5	164.1	154.1	146.7	144.2	144.2
25°	1243.1	1243.1	1098.9	561.9	191.4	161.6	149.2	139.2	131.8	124.3	124.3
27.5°	1315.2	1320.1	1046.7	392.8	161.6	149.2	134.2	119.3	109.4	104.4	104.4
30°	1397.2	1404.7	962.1	256.1	146.7	131.8	116.8	99.4	84.5	79.6	77.1
32.5°	1494.2	1501.6	865.2	169.1	131.8	114.4	97.0	74.6	59.7	57.2	54.7
35°	1618.5	1601.1	748.3	134.2	114.4	97.0	74.6	52.2	42.3	39.8	39.8
37.5°	1772.6	1735.3	614.1	116.8	97.0	77.1	54.7	34.8	27.3	27.3	24.9
40°	1949.1	1844.7	474.8	104.4	82.0	59.7	34.8	22.4	17.4	17.4	17.4
42.5°	2143.0	1936.7	338.1	92.0	67.1	42.3	22.4	12.4	9.9	9.9	9.9
45°	2366.8	2021.2	231.2	79.6	57.2	29.8	12.4	5.0	5.0	5.0	5.0
47.5°	2590.5	2075.9	154.1	69.6	42.3	17.4	7.5	2.5	2.5	2.5	2.5
50°	2816.8	2118.2	119.3	59.7	29.8	9.9	2.5	0.0	0.0	0.0	0.0
52.5°	3018.1	2148.0	97.0	49.7	19.9	7.5	2.5	0.0	0.0	0.0	0.0
55°	3192.2	2150.5	84.5	39.8	14.9	5.0	0.0	0.0	0.0	0.0	0.0
57.5°	3368.7	2130.6	72.1	29.8	9.9	2.5	0.0	0.0	0.0	0.0	0.0
60°	3475.6	2078.4	57.2	22.4	7.5	2.5	0.0	0.0	0.0	0.0	0.0
62.5°	3540.2	1991.4	44.7	14.9	5.0	2.5	0.0	0.0	0.0	0.0	0.0
65°	3502.9	1882.0	32.3	9.9	5.0	2.5	0.0	0.0	0.0	0.0	0.0
67.5°	3328.9	1712.9	22.4	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
69°	3122.6	1558.8	19.9	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
70°	2941.1	1439.5	17.4	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	2190.3	927.3	14.9	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1230.6	310.8	9.9	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	462.4	79.6	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	101.9	19.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	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)