

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: P595300

Luminaire Tested: **IST-PA1E-740-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595300
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-PA1E-740-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7233 lumens
Efficiency: N/A
Efficacy: 88.7 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

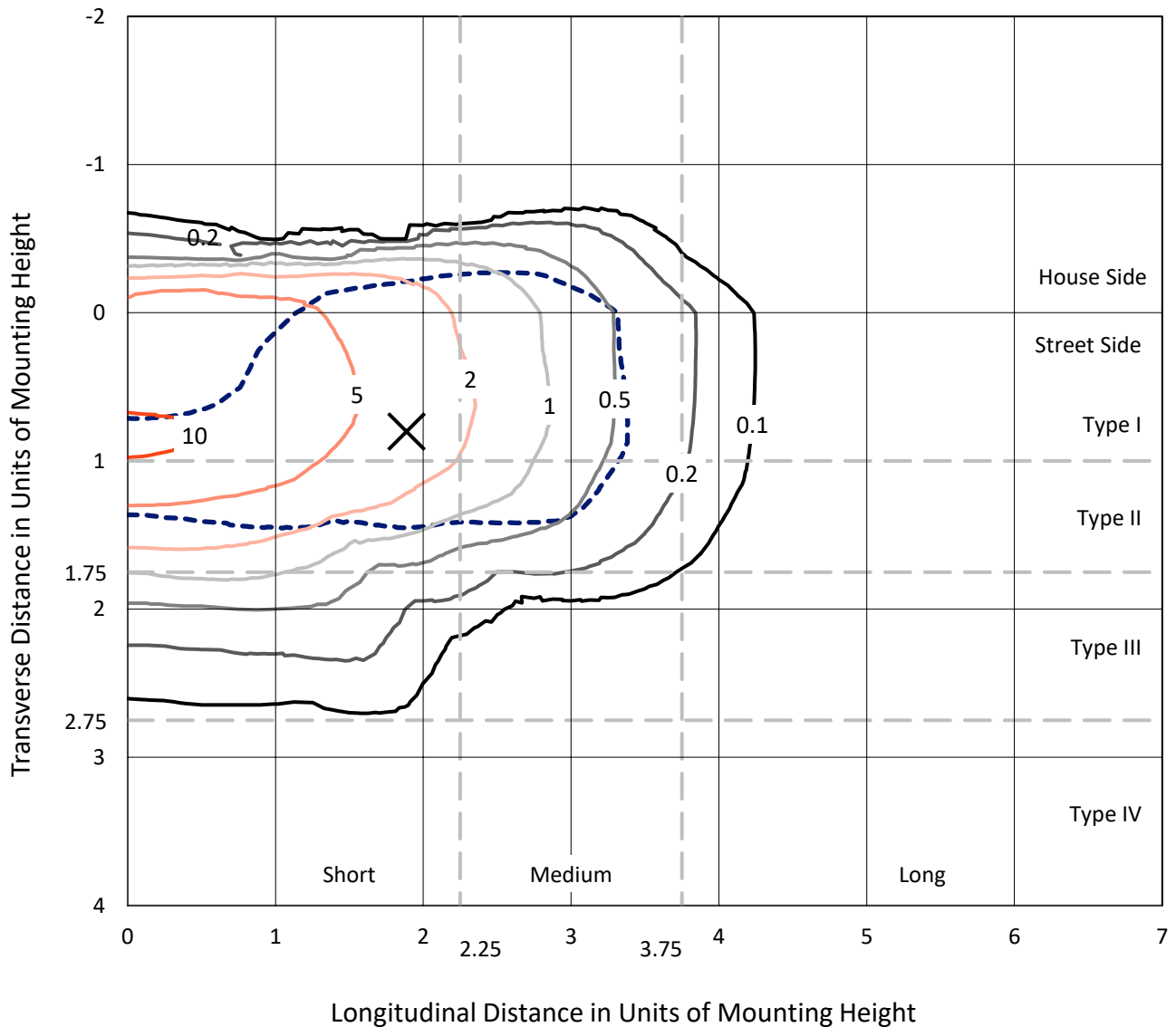
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

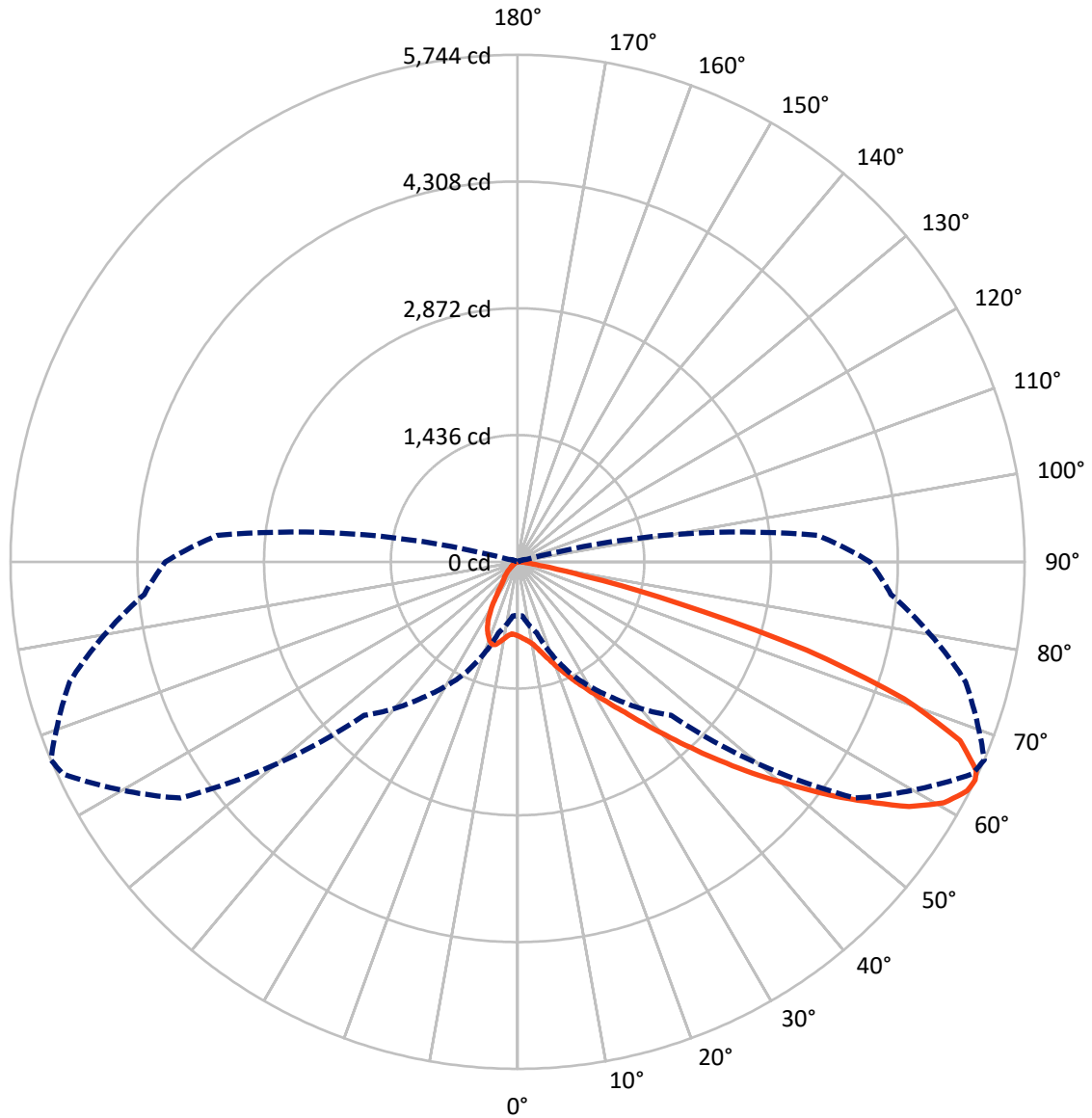
✕ Max cd
 - - - 1/2 Max cd



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	925.3	0.0	925.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6307.7	0.0	6307.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	7233.0	0.0	7233.0
	% 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°	426.9	5.9
30°-40°	817.9	11.3
40°-50°	1507.4	20.8
50°-60°	1946.9	26.9
60°-70°	1594.8	22.0
70°-80°	586.2	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°	7233.0	100.0
0°-180°	7233.0	100.0

Coefficient of Utilization



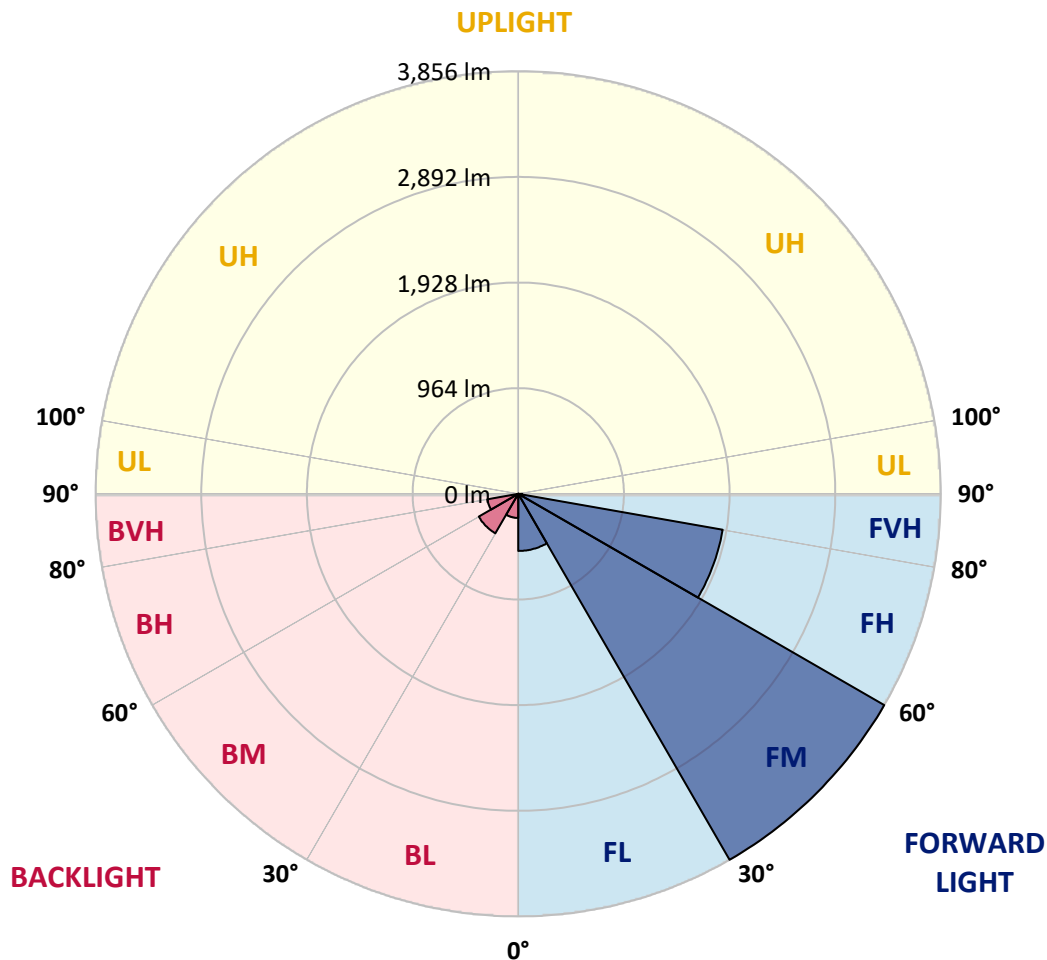
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.5	7.2			
FM (30°-60°)	3856.2	53.3			
FH (60°-80°)	1893.9	26.2			G2/5000
FVH (80°-90°)	36.1	0.5			G1/100
BL (0°-30°)	220.5	3.0	B1/500		
BM (30°-60°)	416.0	5.8	B1/1000		
BH (60°-80°)	287.1	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°	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4
2.5°	870.3	870.3	875.2	872.8	872.8	867.8	860.3	862.8	860.3	857.8	850.4
5°	855.4	857.8	860.3	865.3	875.2	880.2	880.2	882.7	882.7	880.2	870.3
7.5°	847.9	852.9	857.8	862.8	875.2	882.7	895.1	910.1	910.1	912.5	902.6
10°	875.2	880.2	887.7	895.1	907.6	920.0	930.0	947.4	947.4	952.3	949.8
12.5°	932.4	932.4	934.9	939.9	957.3	972.2	989.6	1004.5	1007.0	1009.5	1002.1
15°	1002.1	1002.1	1004.5	1004.5	1014.5	1036.9	1069.2	1084.1	1081.6	1079.1	1064.2
17.5°	1081.6	1081.6	1081.6	1084.1	1089.1	1101.5	1138.8	1168.7	1166.2	1163.7	1133.8
20°	1156.2	1161.2	1166.2	1168.7	1173.6	1183.6	1223.4	1258.2	1265.6	1255.7	1203.5
22.5°	1240.8	1243.3	1245.7	1253.2	1265.6	1270.6	1310.4	1362.6	1370.1	1357.6	1288.0
25°	1325.3	1330.3	1337.7	1347.7	1360.1	1385.0	1412.3	1482.0	1489.4	1474.5	1380.0
27.5°	1511.8	1509.3	1486.9	1469.5	1472.0	1489.4	1526.7	1601.3	1608.8	1593.8	1472.0
30°	1830.1	1800.2	1758.0	1680.9	1606.3	1613.7	1666.0	1738.1	1750.5	1730.6	1574.0
32.5°	2282.6	2252.8	2148.3	1979.3	1815.1	1760.4	1827.6	1897.2	1912.1	1889.7	1693.3
35°	2722.7	2715.3	2615.8	2411.9	2133.4	1981.7	1999.2	2088.7	2093.6	2066.3	1842.5
37.5°	3267.3	3239.9	3103.2	2874.4	2546.2	2275.2	2225.4	2310.0	2322.4	2290.1	2024.0
40°	3627.8	3617.9	3535.8	3374.2	3021.1	2680.5	2501.4	2583.5	2581.0	2533.7	2232.9
42.5°	3836.7	3841.7	3836.7	3759.6	3558.2	3167.8	2866.9	2871.9	2879.4	2829.6	2474.1
45°	3978.4	3978.4	3985.9	4048.0	3970.9	3749.7	3312.0	3200.1	3210.1	3133.0	2725.2
47.5°	3975.9	3990.8	4030.6	4174.8	4279.3	4291.7	3869.0	3583.1	3578.1	3461.2	2983.8
50°	3707.4	3697.4	3861.5	4184.8	4498.1	4739.3	4396.1	3988.4	3946.1	3801.9	3252.3
52.5°	3103.2	3135.5	3409.0	3883.9	4550.3	5042.6	4851.2	4431.0	4376.2	4140.0	3488.6
55°	2576.0	2610.8	2876.9	3341.9	4266.8	5149.6	5157.0	4900.9	4791.5	4433.4	3732.2
57.5°	1934.5	2001.6	2394.5	2832.1	3645.2	4883.5	5266.4	5351.0	5231.6	4716.9	3931.2
60°	1235.8	1275.6	1715.7	2255.3	2954.0	4187.3	5244.0	5612.0	5547.4	4975.5	4097.8
62.5°	808.1	830.5	1133.8	1698.3	2250.3	3155.4	4978.0	5716.5	5716.5	5149.6	4222.1
64°	609.2	614.2	830.5	1380.0	1877.3	2459.2	4664.7	5684.2	5743.8	5254.0	4247.0
65°	482.4	484.9	649.0	1146.3	1685.9	2016.6	4391.2	5614.5	5711.5	5293.8	4261.9
67.5°	338.2	345.6	420.2	661.4	1208.4	1163.7	3254.8	5286.3	5405.7	5306.2	4242.0
70°	293.4	303.4	353.1	432.7	862.8	676.3	1730.6	4505.5	4647.3	4943.2	3948.6
72.5°	223.8	236.2	295.9	365.5	606.7	457.5	668.9	3200.1	3423.9	3821.8	3259.8
75°	161.6	166.6	218.8	298.4	425.2	353.1	288.4	1651.0	1877.3	2255.3	2026.5
77.5°	101.9	109.4	149.2	223.8	380.4	268.5	171.6	601.7	758.4	982.2	885.2
80°	59.7	62.2	89.5	154.2	256.1	198.9	109.4	213.8	258.6	365.5	236.2
82.5°	34.8	37.3	57.2	104.4	166.6	154.2	69.6	109.4	121.8	139.2	49.7
85°	12.4	12.4	39.8	62.2	89.5	77.1	39.8	57.2	62.2	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°	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4
2.5°	847.9	840.4	833.0	823.0	815.6	800.7	793.2	783.2	780.8	775.8	773.3
5°	867.8	855.4	838.0	813.1	798.2	775.8	760.9	746.0	743.5	738.5	736.0
7.5°	895.1	882.7	860.3	833.0	808.1	785.7	768.3	746.0	723.6	706.2	706.2
10°	939.9	925.0	895.1	870.3	840.4	793.2	711.1	636.5	589.3	559.5	549.5
12.5°	994.6	974.7	942.4	912.5	855.4	706.2	579.4	482.4	402.8	365.5	358.1
15°	1051.8	1034.4	1002.1	957.3	785.7	589.3	422.7	273.5	196.4	161.6	166.6
17.5°	1114.0	1089.1	1051.8	962.3	691.2	440.1	226.3	139.2	119.4	114.4	114.4
20°	1178.6	1146.3	1109.0	907.6	569.4	253.6	129.3	104.4	97.0	89.5	92.0
22.5°	1248.2	1208.4	1151.3	825.5	407.8	136.8	99.5	84.5	74.6	72.1	72.1
25°	1322.8	1265.6	1193.5	731.0	236.2	104.4	82.1	67.1	59.7	57.2	54.7
27.5°	1402.4	1330.3	1203.5	606.7	134.3	87.0	64.6	52.2	44.8	42.3	42.3
30°	1474.5	1394.9	1181.1	450.1	101.9	72.1	52.2	39.8	34.8	34.8	34.8
32.5°	1571.5	1467.0	1111.5	281.0	82.1	57.2	39.8	32.3	27.4	27.4	27.4
35°	1698.3	1574.0	1041.8	149.2	67.1	47.2	32.3	24.9	22.4	22.4	22.4
37.5°	1872.3	1715.7	979.7	94.5	54.7	37.3	24.9	19.9	17.4	17.4	17.4
40°	2051.4	1884.8	892.7	72.1	44.8	29.8	19.9	14.9	12.4	12.4	14.9
42.5°	2275.2	2081.2	793.2	62.2	37.3	24.9	14.9	9.9	7.5	9.9	9.9
45°	2501.4	2287.6	654.0	52.2	32.3	19.9	9.9	5.0	5.0	7.5	7.5
47.5°	2735.2	2506.4	507.2	44.8	27.4	14.9	7.5	2.5	2.5	5.0	5.0
50°	2976.3	2722.7	377.9	39.8	22.4	12.4	5.0	2.5	0.0	2.5	2.5
52.5°	3217.5	2931.6	293.4	34.8	19.9	9.9	2.5	0.0	0.0	0.0	2.5
55°	3441.3	3120.6	233.7	29.8	17.4	7.5	2.5	0.0	0.0	0.0	0.0
57.5°	3630.3	3259.8	186.5	27.4	14.9	5.0	2.5	0.0	0.0	0.0	0.0
60°	3809.3	3369.2	144.2	22.4	12.4	5.0	2.5	0.0	0.0	0.0	0.0
62.5°	3936.1	3411.5	116.9	19.9	9.9	5.0	0.0	0.0	0.0	0.0	0.0
64°	3990.8	3416.5	101.9	17.4	9.9	5.0	2.5	0.0	0.0	0.0	0.0
65°	4023.2	3401.5	94.5	17.4	9.9	5.0	2.5	0.0	0.0	0.0	0.0
67.5°	4030.6	3319.5	72.1	14.9	7.5	2.5	2.5	0.0	0.0	0.0	0.0
70°	3811.8	3033.5	52.2	9.9	5.0	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	3185.2	2317.4	34.8	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
75°	1989.2	1002.1	19.9	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	823.0	303.4	12.4	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	189.0	72.1	5.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	44.8	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)