

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: P595246

Luminaire Tested: **IST-PA1D-827-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595246
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-PA1D-827-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 800mA 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: 4317 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

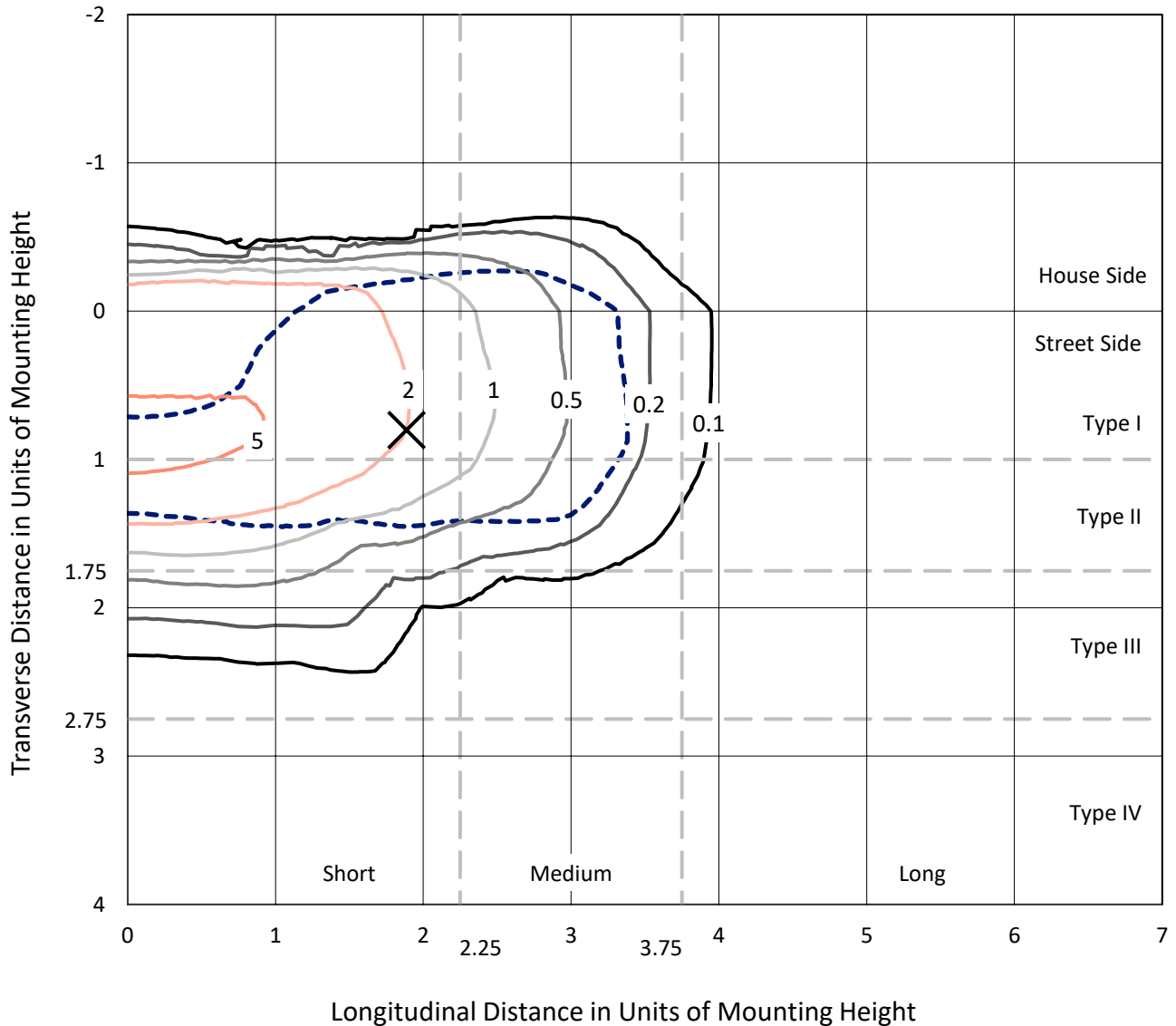
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

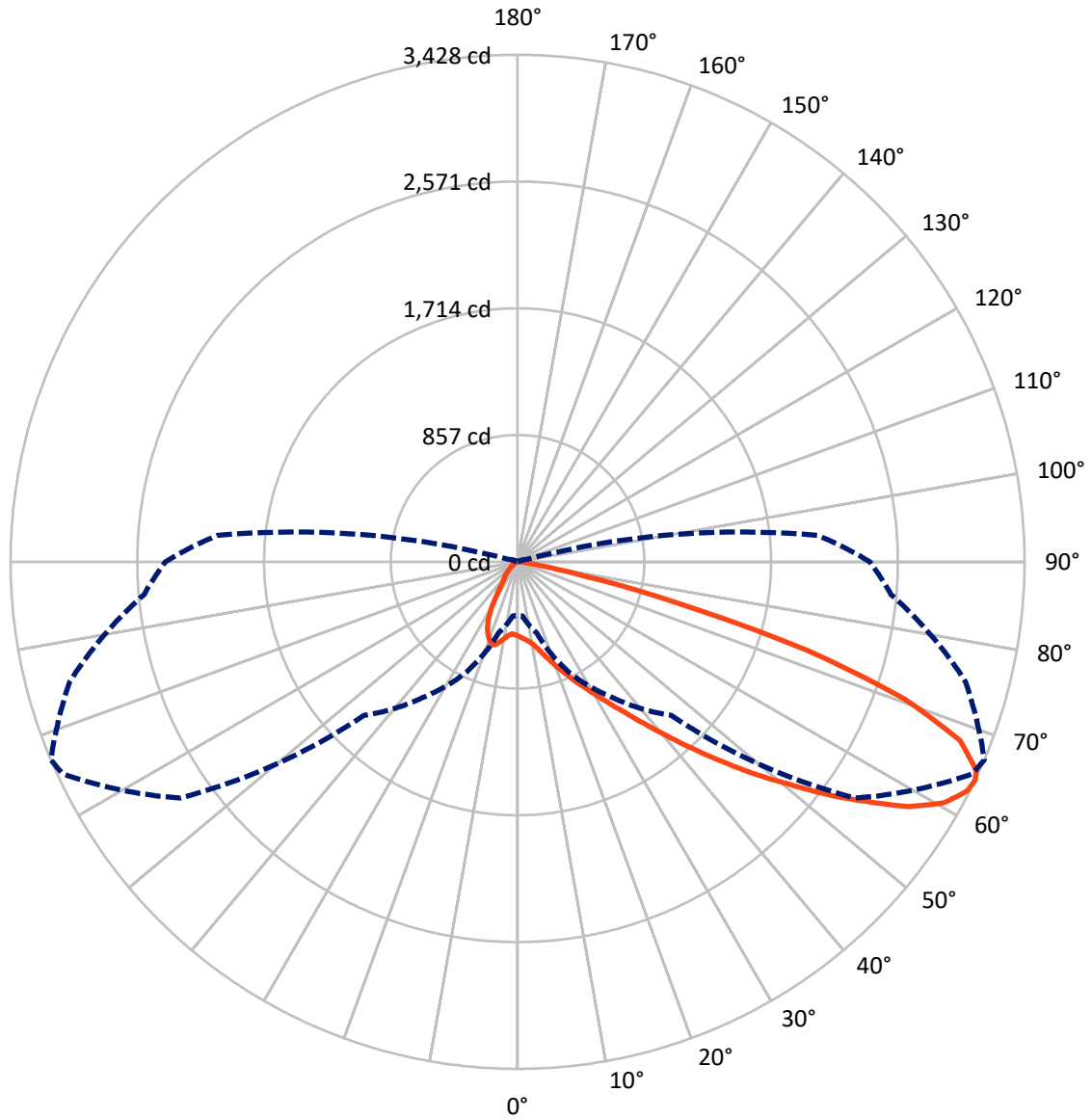
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.6 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	552.2	0.0	552.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3764.8	0.0	3764.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	4317.0	0.0	4317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	1.1
10°-20°	140.5	3.3
20°-30°	254.8	5.9
30°-40°	488.1	11.3
40°-50°	899.7	20.8
50°-60°	1162.0	26.9
60°-70°	951.8	22.0
70°-80°	349.9	8.1
80°-90°	22.6	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°	4317.0	100.0
0°-180°	4317.0	100.0

Coefficient of Utilization

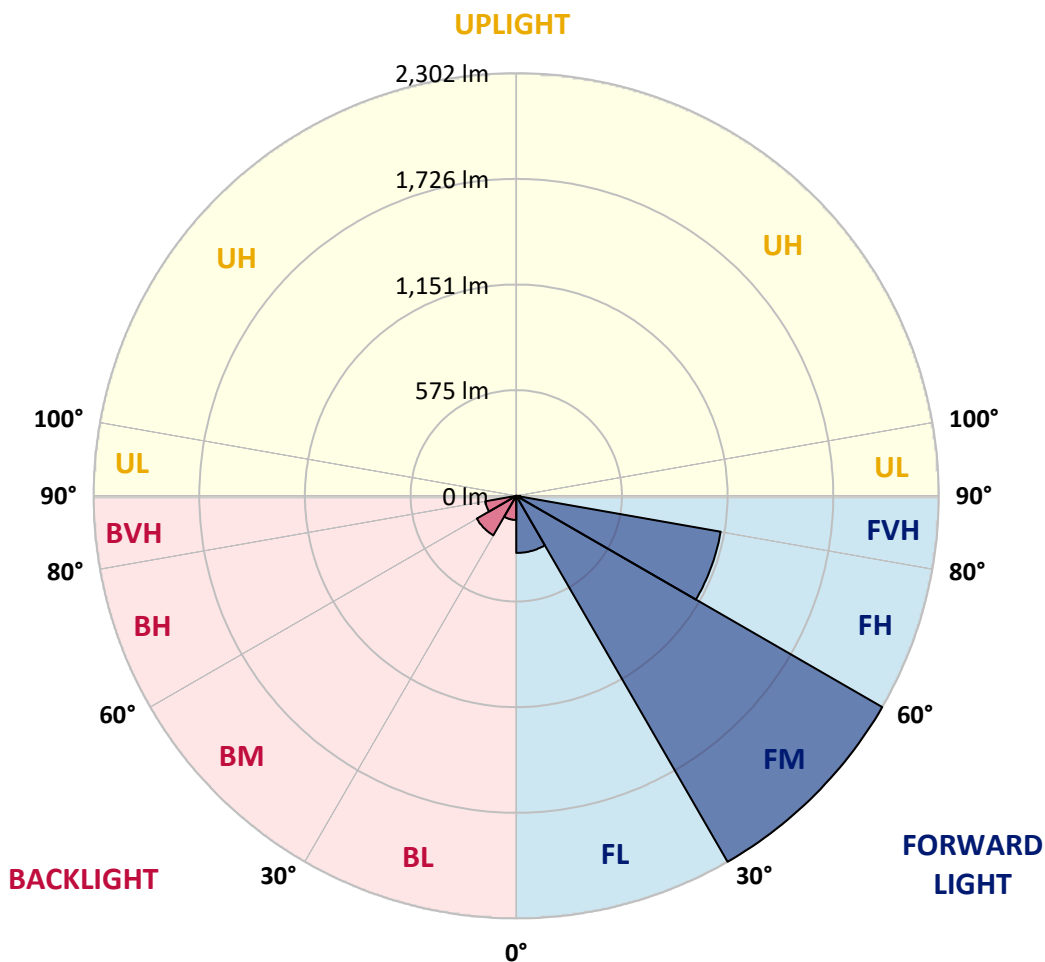


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.2	7.2			
FM (30°-60°)	2301.6	53.3			
FH (60°-80°)	1130.4	26.2			G1/1800
FVH (80°-90°)	21.5	0.5			G1/100
BL (0°-30°)	131.6	3.0	B1/500		
BM (30°-60°)	248.3	5.8	B1/1000		
BH (60°-80°)	171.3	4.0	B1/500		G1/500
BVH (80°-90°)	1.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6
2.5°	519.4	519.4	522.4	520.9	520.9	517.9	513.5	515.0	513.5	512.0	507.6
5°	510.5	512.0	513.5	516.5	522.4	525.4	525.4	526.8	526.8	525.4	519.4
7.5°	506.1	509.0	512.0	515.0	522.4	526.8	534.3	543.2	543.2	544.7	538.7
10°	522.4	525.4	529.8	534.3	541.7	549.1	555.0	565.4	565.4	568.4	566.9
12.5°	556.5	556.5	558.0	561.0	571.4	580.3	590.7	599.6	601.0	602.5	598.1
15°	598.1	598.1	599.6	599.6	605.5	618.9	638.1	647.1	645.6	644.1	635.2
17.5°	645.6	645.6	645.6	647.1	650.0	657.4	679.7	697.5	696.0	694.5	676.7
20°	690.1	693.1	696.0	697.5	700.5	706.4	730.2	750.9	755.4	749.5	718.3
22.5°	740.5	742.0	743.5	748.0	755.4	758.4	782.1	813.3	817.7	810.3	768.7
25°	791.0	794.0	798.4	804.4	811.8	826.6	842.9	884.5	889.0	880.1	823.7
27.5°	902.3	900.8	887.5	877.1	878.6	889.0	911.2	955.7	960.2	951.3	878.6
30°	1092.3	1074.5	1049.2	1003.2	958.7	963.2	994.3	1037.4	1044.8	1032.9	939.4
32.5°	1362.4	1344.6	1282.2	1181.3	1083.4	1050.7	1090.8	1132.3	1141.2	1127.9	1010.6
35°	1625.1	1620.6	1561.2	1439.5	1273.3	1182.8	1193.2	1246.6	1249.6	1233.3	1099.7
37.5°	1950.1	1933.7	1852.1	1715.6	1519.7	1357.9	1328.2	1378.7	1386.1	1366.8	1208.0
40°	2165.3	2159.3	2110.3	2013.9	1803.1	1599.8	1493.0	1541.9	1540.5	1512.3	1332.7
42.5°	2289.9	2292.9	2289.9	2243.9	2123.7	1890.7	1711.1	1714.1	1718.5	1688.9	1476.6
45°	2374.5	2374.5	2379.0	2416.1	2370.1	2238.0	1976.8	1910.0	1915.9	1869.9	1626.5
47.5°	2373.0	2381.9	2405.7	2491.7	2554.1	2561.5	2309.2	2138.5	2135.6	2065.8	1780.9
50°	2212.7	2206.8	2304.8	2497.7	2684.7	2828.6	2623.8	2380.4	2355.2	2269.1	1941.2
52.5°	1852.1	1871.4	2034.7	2318.1	2715.8	3009.7	2895.4	2644.6	2612.0	2471.0	2082.1
55°	1537.5	1558.3	1717.1	1994.6	2546.7	3073.5	3078.0	2925.1	2859.8	2646.1	2227.6
57.5°	1154.6	1194.7	1429.2	1690.4	2175.6	2914.7	3143.3	3193.7	3122.5	2815.3	2346.3
60°	737.6	761.3	1024.0	1346.0	1763.1	2499.2	3129.9	3349.5	3310.9	2969.6	2445.7
62.5°	482.3	495.7	676.7	1013.6	1343.1	1883.3	2971.1	3411.9	3411.9	3073.5	2519.9
64°	363.6	366.6	495.7	823.7	1120.5	1467.7	2784.1	3392.6	3428.2	3135.8	2534.8
65°	287.9	289.4	387.3	684.2	1006.2	1203.6	2620.9	3351.0	3408.9	3159.6	2543.7
67.5°	201.8	206.3	250.8	394.8	721.3	694.5	1942.6	3155.1	3226.4	3167.0	2531.8
70°	175.1	181.1	210.7	258.2	515.0	403.7	1032.9	2689.1	2773.7	2950.3	2356.7
72.5°	133.6	141.0	176.6	218.2	362.1	273.1	399.2	1910.0	2043.6	2281.0	1945.6
75°	96.5	99.4	130.6	178.1	253.8	210.7	172.2	985.4	1120.5	1346.0	1209.5
77.5°	60.8	65.3	89.0	133.6	227.1	160.3	102.4	359.1	452.6	586.2	528.3
80°	35.6	37.1	53.4	92.0	152.9	118.7	65.3	127.6	154.3	218.2	141.0
82.5°	20.8	22.3	34.1	62.3	99.4	92.0	41.6	65.3	72.7	83.1	29.7
85°	7.4	7.4	23.7	37.1	53.4	46.0	23.7	34.1	37.1	46.0	8.9
87.5°	1.5	1.5	11.9	19.3	19.3	7.4	11.9	14.8	17.8	25.2	3.0
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°	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6
2.5°	506.1	501.6	497.2	491.2	486.8	477.9	473.4	467.5	466.0	463.0	461.5
5°	517.9	510.5	500.1	485.3	476.4	463.0	454.1	445.2	443.7	440.8	439.3
7.5°	534.3	526.8	513.5	497.2	482.3	469.0	458.6	445.2	431.9	421.5	421.5
10°	561.0	552.1	534.3	519.4	501.6	473.4	424.4	379.9	351.7	333.9	328.0
12.5°	593.6	581.8	562.5	544.7	510.5	421.5	345.8	287.9	240.4	218.2	213.7
15°	627.8	617.4	598.1	571.4	469.0	351.7	252.3	163.2	117.2	96.5	99.4
17.5°	664.9	650.0	627.8	574.3	412.6	262.7	135.0	83.1	71.2	68.3	68.3
20°	703.4	684.2	661.9	541.7	339.9	151.4	77.2	62.3	57.9	53.4	54.9
22.5°	745.0	721.3	687.1	492.7	243.4	81.6	59.4	50.5	44.5	43.0	43.0
25°	789.5	755.4	712.4	436.3	141.0	62.3	49.0	40.1	35.6	34.1	32.6
27.5°	837.0	794.0	718.3	362.1	80.1	51.9	38.6	31.2	26.7	25.2	25.2
30°	880.1	832.6	704.9	268.6	60.8	43.0	31.2	23.7	20.8	20.8	20.8
32.5°	937.9	875.6	663.4	167.7	49.0	34.1	23.7	19.3	16.3	16.3	16.3
35°	1013.6	939.4	621.8	89.0	40.1	28.2	19.3	14.8	13.4	13.4	13.4
37.5°	1117.5	1024.0	584.7	56.4	32.6	22.3	14.8	11.9	10.4	10.4	10.4
40°	1224.4	1124.9	532.8	43.0	26.7	17.8	11.9	8.9	7.4	7.4	8.9
42.5°	1357.9	1242.2	473.4	37.1	22.3	14.8	8.9	5.9	4.5	5.9	5.9
45°	1493.0	1365.3	390.3	31.2	19.3	11.9	5.9	3.0	3.0	4.5	4.5
47.5°	1632.5	1495.9	302.7	26.7	16.3	8.9	4.5	1.5	1.5	3.0	3.0
50°	1776.4	1625.1	225.6	23.7	13.4	7.4	3.0	1.5	0.0	1.5	1.5
52.5°	1920.4	1749.7	175.1	20.8	11.9	5.9	1.5	0.0	0.0	0.0	1.5
55°	2053.9	1862.5	139.5	17.8	10.4	4.5	1.5	0.0	0.0	0.0	0.0
57.5°	2166.7	1945.6	111.3	16.3	8.9	3.0	1.5	0.0	0.0	0.0	0.0
60°	2273.6	2010.9	86.1	13.4	7.4	3.0	1.5	0.0	0.0	0.0	0.0
62.5°	2349.3	2036.1	69.8	11.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
64°	2381.9	2039.1	60.8	10.4	5.9	3.0	1.5	0.0	0.0	0.0	0.0
65°	2401.2	2030.2	56.4	10.4	5.9	3.0	1.5	0.0	0.0	0.0	0.0
67.5°	2405.7	1981.2	43.0	8.9	4.5	1.5	1.5	0.0	0.0	0.0	0.0
70°	2275.1	1810.6	31.2	5.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1901.1	1383.1	20.8	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
75°	1187.3	598.1	11.9	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	491.2	181.1	7.4	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
80°	112.8	43.0	3.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	26.7	7.4	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	5.9	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	1.5	1.5	1.5	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)