

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: P595057

Luminaire Tested: **IST-PA1B-740-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595057
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-PA1B-740-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 450mA 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: 3649 lumens
Efficiency: N/A
Efficacy: 100.2 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

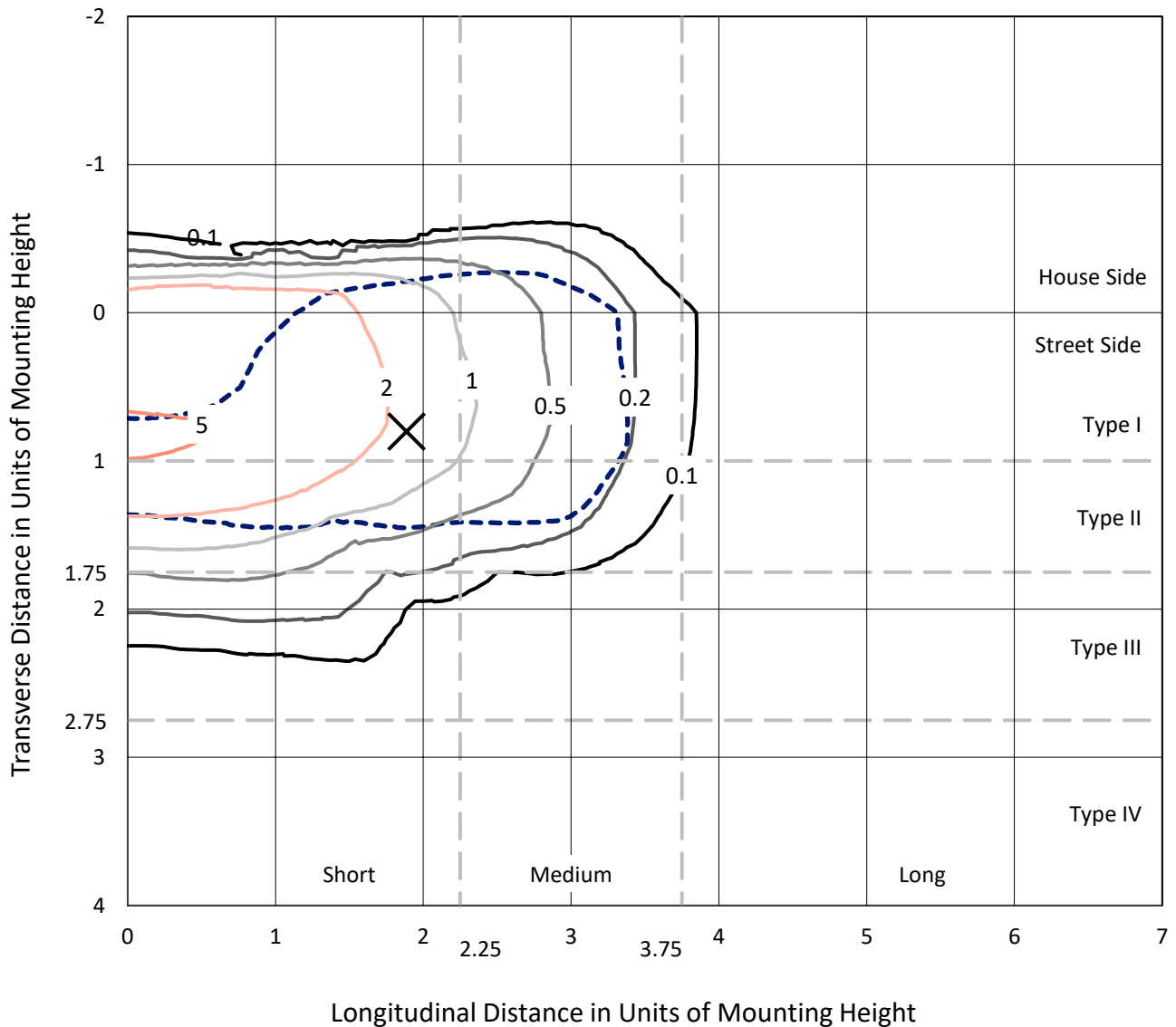
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

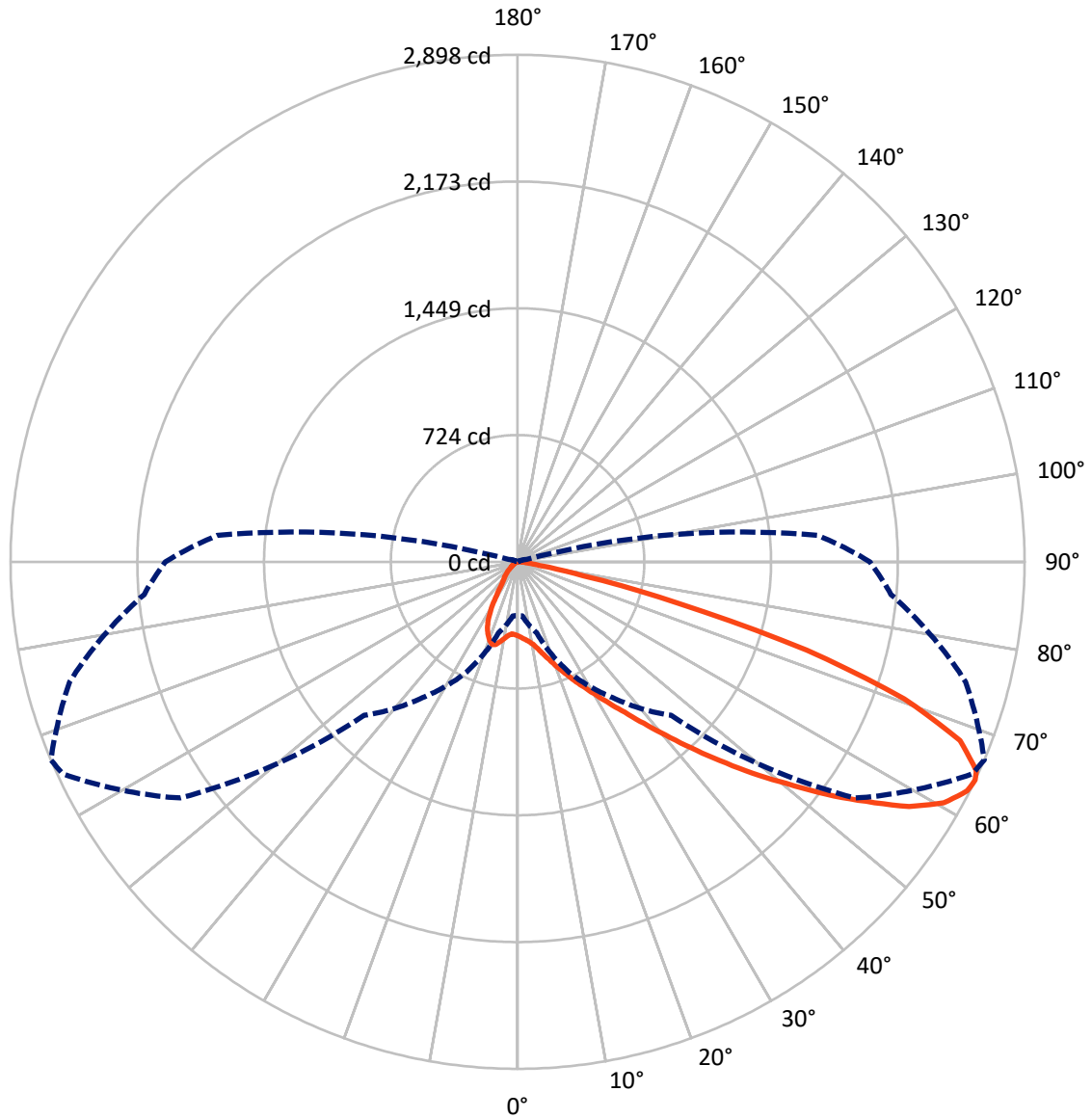
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.6 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	466.8	0.0	466.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3182.2	0.0	3182.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	3649.0	0.0	3649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	1.1
10°-20°	118.7	3.3
20°-30°	215.4	5.9
30°-40°	412.6	11.3
40°-50°	760.5	20.8
50°-60°	982.2	26.9
60°-70°	804.5	22.0
70°-80°	295.8	8.1
80°-90°	19.1	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°	3649.0	100.0
0°-180°	3649.0	100.0

Coefficient of Utilization



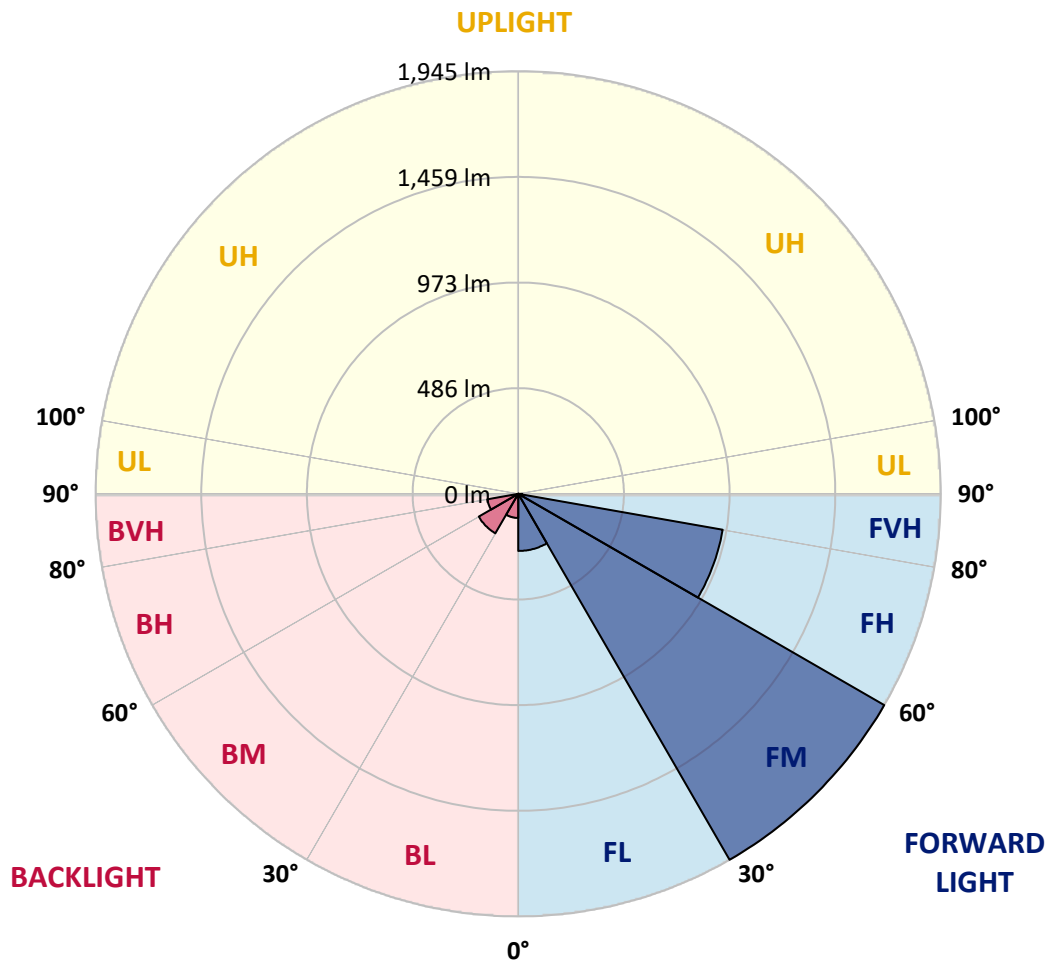
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.1	7.2			
FM (30°-60°)	1945.4	53.3			
FH (60°-80°)	955.5	26.2			G1/1800
FVH (80°-90°)	18.2	0.5			G1/100
BL (0°-30°)	111.2	3.0	B1/500		
BM (30°-60°)	209.9	5.8	B0/220		
BH (60°-80°)	144.8	4.0	B1/500		G1/500
BVH (80°-90°)	0.9	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°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0
2.5°	439.0	439.0	441.6	440.3	440.3	437.8	434.0	435.3	434.0	432.8	429.0
5°	431.5	432.8	434.0	436.5	441.6	444.1	444.1	445.3	445.3	444.1	439.0
7.5°	427.8	430.3	432.8	435.3	441.6	445.3	451.6	459.1	459.1	460.4	455.4
10°	441.6	444.1	447.8	451.6	457.9	464.1	469.2	477.9	477.9	480.4	479.2
12.5°	470.4	470.4	471.7	474.2	483.0	490.5	499.3	506.8	508.0	509.3	505.5
15°	505.5	505.5	506.8	506.8	511.8	523.1	539.4	546.9	545.7	544.4	536.9
17.5°	545.7	545.7	545.7	546.9	549.4	555.7	574.5	589.6	588.3	587.1	572.0
20°	583.3	585.8	588.3	589.6	592.1	597.1	617.2	634.7	638.5	633.5	607.1
22.5°	626.0	627.2	628.5	632.2	638.5	641.0	661.1	687.4	691.2	684.9	649.8
25°	668.6	671.1	674.9	679.9	686.2	698.7	712.5	747.6	751.4	743.9	696.2
27.5°	762.7	761.4	750.1	741.4	742.6	751.4	770.2	807.8	811.6	804.1	742.6
30°	923.3	908.2	886.9	848.0	810.4	814.1	840.5	876.8	883.1	873.1	794.1
32.5°	1151.6	1136.5	1083.8	998.5	915.7	888.1	922.0	957.1	964.7	953.4	854.3
35°	1373.6	1369.8	1319.7	1216.8	1076.3	999.8	1008.6	1053.7	1056.2	1042.4	929.5
37.5°	1648.3	1634.5	1565.5	1450.1	1284.5	1147.8	1122.7	1165.4	1171.6	1155.3	1021.1
40°	1830.2	1825.2	1783.8	1702.3	1524.1	1352.3	1262.0	1303.3	1302.1	1278.3	1126.5
42.5°	1935.6	1938.1	1935.6	1896.7	1795.1	1598.1	1446.4	1448.9	1452.6	1427.5	1248.2
45°	2007.1	2007.1	2010.8	2042.2	2003.3	1891.7	1670.9	1614.4	1619.5	1580.6	1374.9
47.5°	2005.8	2013.4	2033.4	2106.2	2158.9	2165.1	1951.9	1807.6	1805.1	1746.2	1505.3
50°	1870.3	1865.3	1948.1	2111.2	2269.3	2390.9	2217.8	2012.1	1990.8	1918.0	1640.8
52.5°	1565.5	1581.8	1719.8	1959.4	2295.6	2544.0	2447.4	2235.4	2207.8	2088.6	1760.0
55°	1299.6	1317.1	1451.4	1685.9	2152.6	2597.9	2601.7	2472.5	2417.3	2236.6	1882.9
57.5°	975.9	1009.8	1208.0	1428.8	1839.0	2463.7	2656.9	2699.5	2639.3	2379.6	1983.2
60°	623.4	643.5	865.6	1137.8	1490.3	2112.5	2645.6	2831.2	2798.6	2510.1	2067.3
62.5°	407.7	419.0	572.0	856.8	1135.3	1591.9	2511.4	2883.9	2883.9	2597.9	2130.0
64°	307.3	309.8	419.0	696.2	947.1	1240.6	2353.3	2867.6	2897.7	2650.6	2142.6
65°	243.4	244.6	327.4	578.3	850.5	1017.3	2215.3	2832.5	2881.4	2670.7	2150.1
67.5°	170.6	174.4	212.0	333.7	609.7	587.1	1642.0	2666.9	2727.1	2676.9	2140.0
70°	148.0	153.0	178.1	218.3	435.3	341.2	873.1	2273.0	2344.5	2493.8	1992.0
72.5°	112.9	119.2	149.3	184.4	306.1	230.8	337.4	1614.4	1727.3	1928.1	1644.6
75°	81.5	84.0	110.4	150.5	214.5	178.1	145.5	832.9	947.1	1137.8	1022.4
77.5°	51.4	55.2	75.3	112.9	191.9	135.5	86.6	303.6	382.6	495.5	446.6
80°	30.1	31.4	45.2	77.8	129.2	100.4	55.2	107.9	130.5	184.4	119.2
82.5°	17.6	18.8	28.9	52.7	84.0	77.8	35.1	55.2	61.5	70.2	25.1
85°	6.3	6.3	20.1	31.4	45.2	38.9	20.1	28.9	31.4	38.9	7.5
87.5°	1.3	1.3	10.0	16.3	16.3	6.3	10.0	12.5	15.1	21.3	2.5
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°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0
2.5°	427.8	424.0	420.2	415.2	411.5	403.9	400.2	395.1	393.9	391.4	390.1
5°	437.8	431.5	422.7	410.2	402.7	391.4	383.9	376.3	375.1	372.6	371.3
7.5°	451.6	445.3	434.0	420.2	407.7	396.4	387.6	376.3	365.0	356.3	356.3
10°	474.2	466.6	451.6	439.0	424.0	400.2	358.8	321.1	297.3	282.2	277.2
12.5°	501.8	491.7	475.4	460.4	431.5	356.3	292.3	243.4	203.2	184.4	180.6
15°	530.6	521.8	505.5	483.0	396.4	297.3	213.3	138.0	99.1	81.5	84.0
17.5°	562.0	549.4	530.6	485.5	348.7	222.0	114.2	70.2	60.2	57.7	57.7
20°	594.6	578.3	559.5	457.9	287.3	128.0	65.2	52.7	48.9	45.2	46.4
22.5°	629.7	609.7	580.8	416.5	205.7	69.0	50.2	42.7	37.6	36.4	36.4
25°	667.4	638.5	602.1	368.8	119.2	52.7	41.4	33.9	30.1	28.9	27.6
27.5°	707.5	671.1	607.1	306.1	67.7	43.9	32.6	26.3	22.6	21.3	21.3
30°	743.9	703.7	595.9	227.1	51.4	36.4	26.3	20.1	17.6	17.6	17.6
32.5°	792.8	740.1	560.7	141.8	41.4	28.9	20.1	16.3	13.8	13.8	13.8
35°	856.8	794.1	525.6	75.3	33.9	23.8	16.3	12.5	11.3	11.3	11.3
37.5°	944.6	865.6	494.2	47.7	27.6	18.8	12.5	10.0	8.8	8.8	8.8
40°	1034.9	950.9	450.3	36.4	22.6	15.1	10.0	7.5	6.3	6.3	7.5
42.5°	1147.8	1050.0	400.2	31.4	18.8	12.5	7.5	5.0	3.8	5.0	5.0
45°	1262.0	1154.1	329.9	26.3	16.3	10.0	5.0	2.5	2.5	3.8	3.8
47.5°	1379.9	1264.5	255.9	22.6	13.8	7.5	3.8	1.3	1.3	2.5	2.5
50°	1501.5	1373.6	190.7	20.1	11.3	6.3	2.5	1.3	0.0	1.3	1.3
52.5°	1623.2	1479.0	148.0	17.6	10.0	5.0	1.3	0.0	0.0	0.0	1.3
55°	1736.1	1574.3	117.9	15.1	8.8	3.8	1.3	0.0	0.0	0.0	0.0
57.5°	1831.5	1644.6	94.1	13.8	7.5	2.5	1.3	0.0	0.0	0.0	0.0
60°	1921.8	1699.7	72.8	11.3	6.3	2.5	1.3	0.0	0.0	0.0	0.0
62.5°	1985.8	1721.1	59.0	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
64°	2013.4	1723.6	51.4	8.8	5.0	2.5	1.3	0.0	0.0	0.0	0.0
65°	2029.7	1716.1	47.7	8.8	5.0	2.5	1.3	0.0	0.0	0.0	0.0
67.5°	2033.4	1674.7	36.4	7.5	3.8	1.3	1.3	0.0	0.0	0.0	0.0
70°	1923.0	1530.4	26.3	5.0	2.5	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1606.9	1169.1	17.6	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
75°	1003.5	505.5	10.0	3.8	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	415.2	153.0	6.3	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0
80°	95.3	36.4	2.5	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	22.6	6.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	5.0	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.3	1.3	1.3	1.3	1.3	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)