

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: P595049

Luminaire Tested: **IST-PA1B-735-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-735-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4818 lumens
Efficiency: N/A
Efficacy: 132.4 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

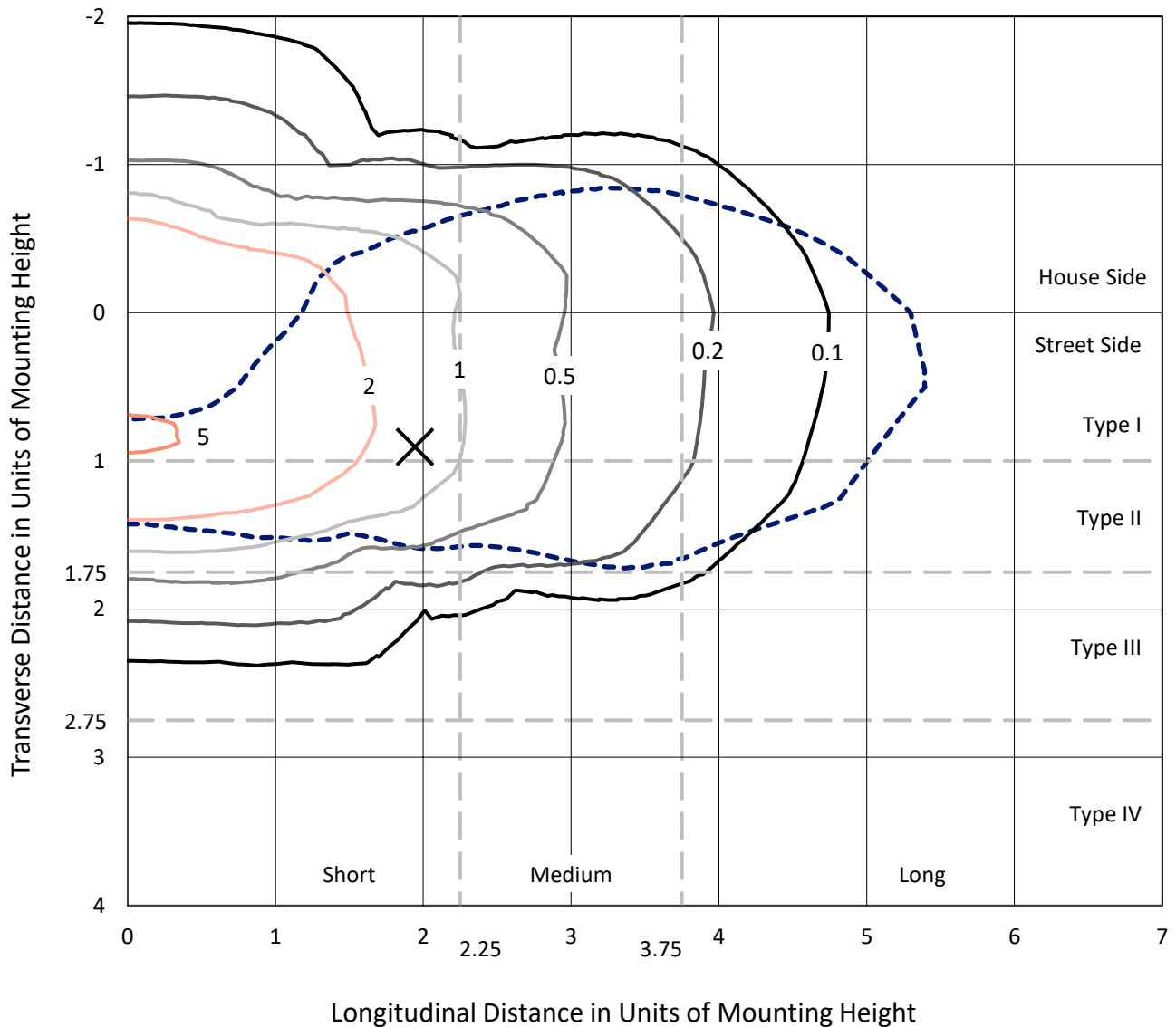
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

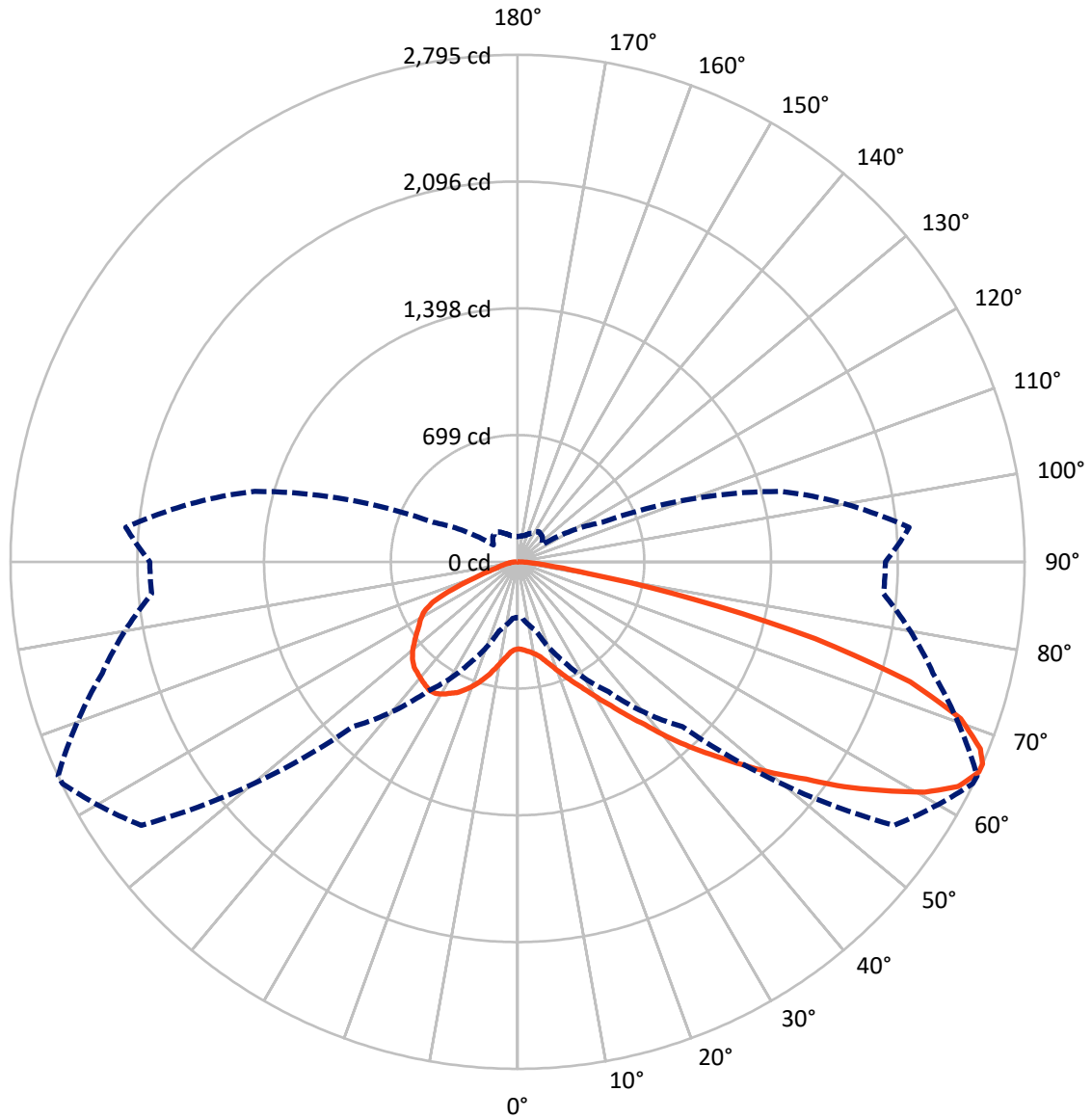
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1462.9	0.0	1462.9
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3355.1	0.0	3355.1
	% Fixture	69.6	0.0	69.6
Total	Lumens	4818.0	0.0	4818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.0
10°-20°	170.8	3.5
20°-30°	334.4	6.9
30°-40°	546.4	11.3
40°-50°	867.3	18.0
50°-60°	1115.5	23.2
60°-70°	1006.0	20.9
70°-80°	623.9	13.0
80°-90°	104.5	2.2
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°	4818.0	100.0
0°-180°	4818.0	100.0

Coefficient of Utilization

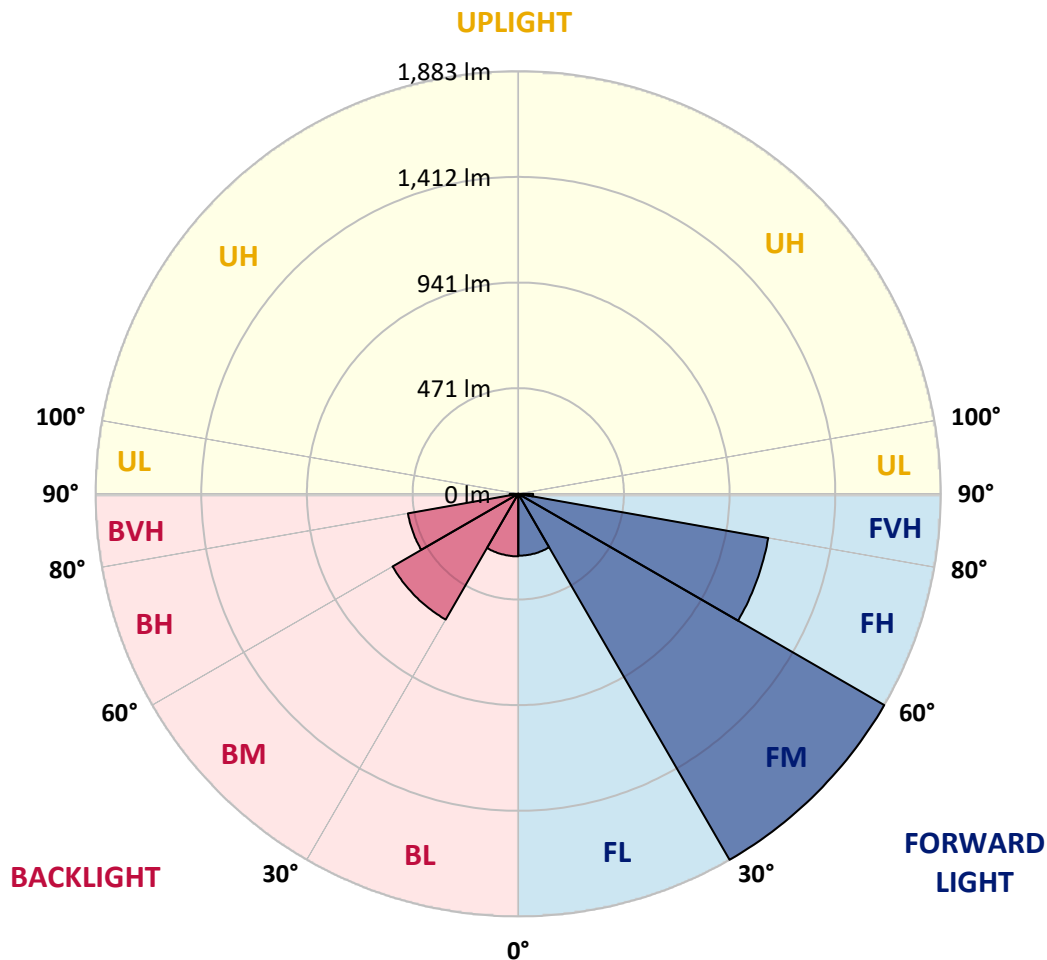


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.5	5.7			
FM (30°-60°)	1882.6	39.1			
FH (60°-80°)	1130.8	23.5			G1/1800
FVH (80°-90°)	66.1	1.4			G1/100
BL (0°-30°)	278.6	5.8	B1/500		
BM (30°-60°)	646.7	13.4	B1/1000		
BH (60°-80°)	499.2	10.4	B1/500		G1/500
BVH (80°-90°)	38.4	0.8			G1/100
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°	64°	65°	75°	85°
0°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2
2.5°	481.4	482.6	483.7	481.4	483.7	484.9	482.6	482.6	483.7	481.4	481.4
5°	477.9	479.1	481.4	482.6	487.3	489.6	490.8	490.8	491.9	490.8	491.9
7.5°	468.6	468.6	473.2	475.6	482.6	490.8	495.4	502.4	502.4	503.6	507.1
10°	477.9	477.9	481.4	484.9	490.8	497.8	504.8	513.0	515.3	523.5	528.1
12.5°	491.9	494.3	498.9	503.6	510.6	518.8	524.6	532.8	534.0	542.2	551.5
15°	515.3	517.6	520.0	525.8	535.2	545.7	556.2	562.0	564.4	569.0	576.1
17.5°	550.3	552.7	553.9	557.4	564.4	578.4	593.6	598.3	600.6	600.6	606.4
20°	609.9	608.8	606.4	599.4	599.4	612.3	633.3	641.5	643.8	639.2	635.6
22.5°	678.9	677.7	668.4	660.2	654.3	656.7	677.7	691.7	690.6	681.2	667.2
25°	768.9	771.2	756.0	735.0	717.4	712.8	725.6	739.6	742.0	724.4	701.1
27.5°	876.4	872.8	864.7	830.8	796.9	775.9	782.9	798.1	799.2	780.5	743.1
30°	1002.5	996.7	975.7	940.6	888.0	858.8	853.0	865.8	869.3	837.8	784.0
32.5°	1142.8	1136.9	1110.0	1056.3	999.0	950.0	931.3	948.8	946.5	910.2	835.5
35°	1312.2	1311.0	1261.9	1195.3	1122.9	1057.5	1031.8	1031.8	1038.8	985.0	900.9
37.5°	1538.9	1548.2	1475.8	1371.8	1270.1	1182.5	1139.3	1136.9	1138.1	1079.7	974.5
40°	1743.4	1739.8	1697.8	1600.8	1452.4	1340.2	1276.0	1261.9	1265.4	1190.7	1070.3
42.5°	1861.4	1864.9	1854.4	1812.3	1682.6	1541.2	1431.4	1394.0	1395.1	1301.7	1161.5
45°	1935.0	1938.5	1937.3	1958.4	1906.9	1773.7	1617.2	1530.7	1526.0	1427.9	1269.0
47.5°	1977.0	1979.4	1994.6	2037.8	2079.9	2049.5	1822.8	1682.6	1673.2	1545.9	1376.5
50°	1930.3	1931.5	1992.2	2095.1	2197.9	2290.2	2033.1	1833.3	1831.0	1676.8	1481.6
52.5°	1684.9	1706.0	1840.3	2055.3	2285.5	2460.8	2276.2	2010.9	1991.1	1800.6	1586.8
55°	1375.3	1384.6	1538.9	1812.3	2269.2	2566.0	2459.6	2202.6	2188.5	1938.5	1689.6
57.5°	1073.8	1083.2	1266.6	1494.5	2019.1	2560.1	2589.3	2409.4	2377.8	2058.8	1792.4
60°	692.9	722.1	934.8	1215.2	1634.7	2382.5	2654.8	2608.0	2578.8	2178.0	1880.1
62.5°	470.9	475.6	608.8	900.9	1223.4	1936.1	2650.1	2730.7	2726.0	2297.2	1967.7
65°	306.1	313.1	393.8	609.9	875.2	1285.3	2533.2	2790.3	2795.0	2370.8	2025.0
66°	259.4	264.1	326.0	513.0	766.5	1018.9	2430.4	2785.6	2795.0	2404.7	2042.5
67.5°	225.5	229.0	260.6	378.6	626.3	732.6	2162.8	2723.7	2750.6	2436.3	2064.7
70°	194.0	198.6	227.9	258.2	447.5	427.7	1369.4	2564.8	2591.7	2451.4	2078.7
72.5°	160.1	163.6	192.8	233.7	324.8	287.4	604.1	2195.5	2263.3	2395.4	2056.5
75°	126.2	128.5	155.4	195.1	248.9	224.3	262.9	1610.1	1695.4	2111.4	1970.0
77.5°	98.2	99.3	120.4	151.9	227.9	174.1	162.4	784.0	992.0	1631.2	1735.2
80°	67.8	70.1	88.8	114.5	167.1	137.9	108.7	306.1	389.1	1083.2	1315.7
82.5°	44.4	45.6	60.8	86.5	111.0	132.0	71.3	148.4	163.6	498.9	570.2
85°	30.4	30.4	43.2	53.7	76.0	87.6	46.7	78.3	85.3	189.3	68.9
87.5°	15.2	15.2	21.0	28.0	36.2	33.9	28.0	28.0	28.0	61.9	19.9
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°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2
2.5°	482.6	482.6	483.7	484.9	486.1	486.1	487.3	487.3	486.1	487.3	488.4
5°	493.1	494.3	496.6	500.1	505.9	511.8	517.6	521.1	524.6	525.8	523.5
7.5°	509.5	511.8	520.0	529.3	538.7	552.7	560.9	565.5	567.9	570.2	567.9
10°	530.5	535.2	546.8	563.2	579.6	597.1	606.4	613.4	614.6	617.0	614.6
12.5°	555.0	563.2	580.7	604.1	624.0	641.5	648.5	643.8	633.3	628.6	627.5
15°	584.2	592.4	617.0	646.2	669.5	677.7	667.2	652.0	640.3	639.2	638.0
17.5°	609.9	621.6	655.5	685.9	708.1	699.9	671.9	662.5	659.0	663.7	662.5
20°	642.7	652.0	685.9	723.3	735.0	703.4	683.6	677.7	674.2	674.2	671.9
22.5°	669.5	676.5	717.4	758.3	751.3	705.8	691.7	680.0	668.4	667.2	663.7
25°	701.1	703.4	746.7	791.1	753.7	708.1	683.6	663.7	652.0	648.5	649.7
27.5°	730.3	736.1	773.5	813.3	747.8	695.2	655.5	629.8	612.3	611.1	611.1
30°	767.7	767.7	801.6	837.8	735.0	662.5	609.9	572.5	558.5	557.4	555.0
32.5°	809.7	802.7	835.5	855.3	706.9	618.1	548.0	505.9	483.7	479.1	475.6
35°	868.2	853.0	876.4	858.8	678.9	555.0	469.7	421.8	405.5	398.4	398.4
37.5°	935.9	913.7	938.3	848.3	635.6	481.4	387.9	351.7	334.2	323.7	327.2
40°	1015.4	987.4	1001.4	836.6	588.9	399.6	320.2	298.0	276.9	262.9	262.9
42.5°	1108.9	1062.1	1072.7	824.9	522.3	328.3	276.9	261.7	245.4	231.4	234.9
45°	1198.8	1153.3	1142.8	813.3	452.2	280.4	259.4	248.9	233.7	217.3	217.3
47.5°	1302.8	1244.4	1204.7	792.2	383.3	265.2	264.1	248.9	219.7	196.3	194.0
50°	1401.0	1347.2	1260.8	760.7	344.7	278.1	262.9	226.7	198.6	183.4	182.3
52.5°	1505.0	1448.9	1306.3	722.1	324.8	272.3	241.9	208.0	187.0	171.8	168.3
55°	1607.8	1578.6	1347.2	684.7	293.3	253.6	224.3	196.3	174.1	160.1	157.7
57.5°	1724.7	1713.0	1382.3	647.3	244.2	230.2	211.5	188.1	167.1	156.6	155.4
60°	1826.3	1867.2	1424.4	619.3	208.0	212.7	205.7	187.0	171.8	160.1	160.1
62.5°	1933.8	2015.6	1461.8	583.1	181.1	202.1	206.8	185.8	165.9	155.4	155.4
65°	2027.3	2167.5	1500.3	516.5	162.4	194.0	203.3	172.9	149.6	141.4	139.0
66°	2067.0	2210.7	1512.0	475.6	155.4	188.1	197.5	165.9	142.6	135.5	134.4
67.5°	2113.8	2278.5	1526.0	387.9	144.9	175.3	184.6	155.4	130.9	126.2	123.9
70°	2179.2	2292.5	1517.8	253.6	126.2	150.7	164.8	139.0	116.8	113.3	109.8
72.5°	2186.2	2196.7	1436.0	160.1	109.8	129.7	144.9	125.0	102.8	99.3	97.0
75°	2070.5	1946.7	1215.2	114.5	97.0	114.5	127.4	108.7	85.3	80.6	78.3
77.5°	1767.9	1544.7	874.0	85.3	84.1	98.2	106.3	94.6	71.3	67.8	66.6
80°	1240.9	1048.1	438.2	64.3	66.6	81.8	88.8	79.5	59.6	54.9	52.6
82.5°	502.4	445.2	150.7	47.9	50.2	61.9	76.0	65.4	45.6	39.7	35.1
85°	57.3	97.0	65.4	32.7	33.9	42.1	51.4	39.7	26.9	22.2	18.7
87.5°	11.7	21.0	23.4	12.9	11.7	16.4	23.4	14.0	9.3	3.5	4.7
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)