

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: P594603

Luminaire Tested: **ISS-PA1B-830-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1B-830-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4136 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

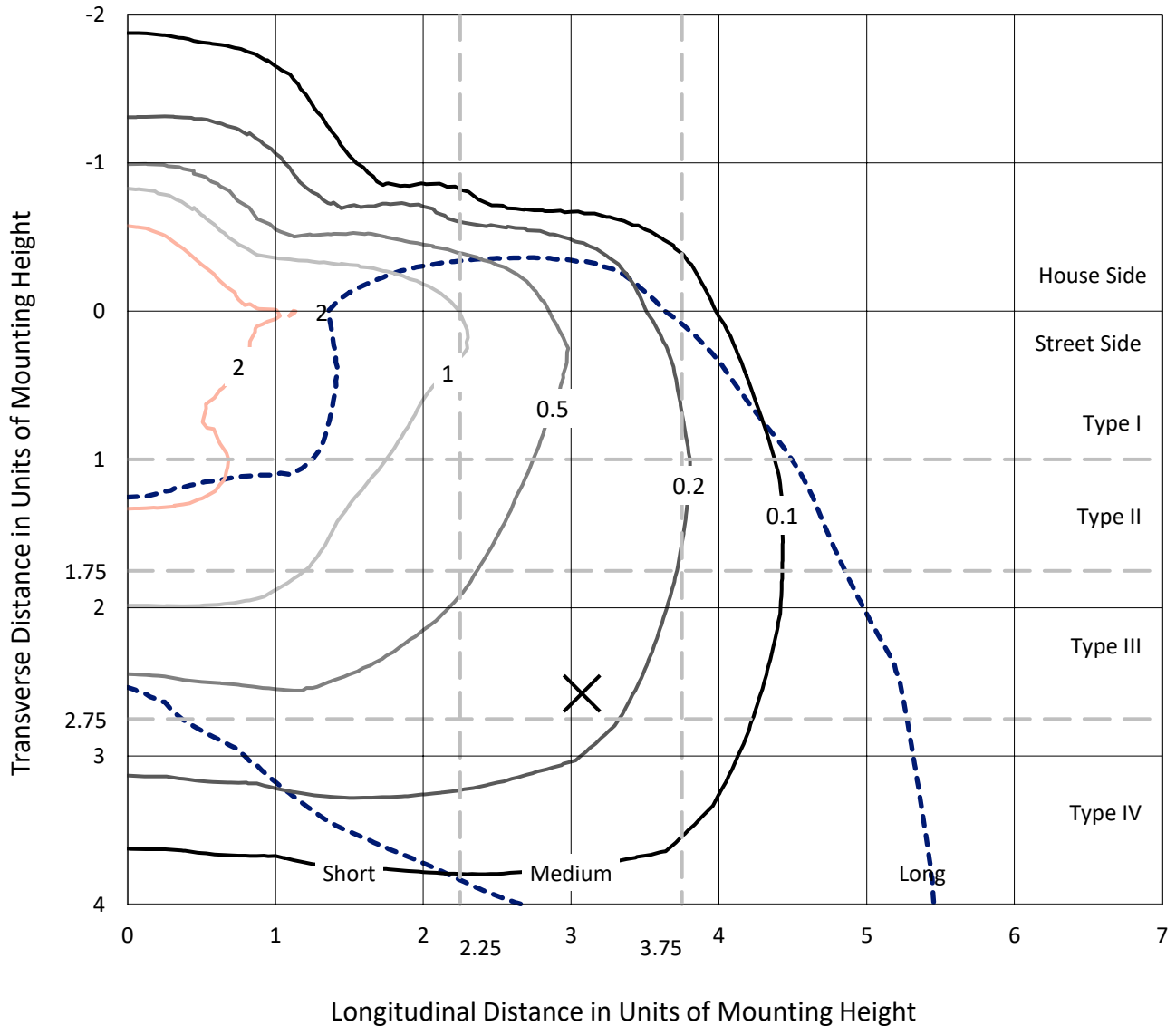
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594603
 CATALOG NUMBER: ISS-PA1B-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

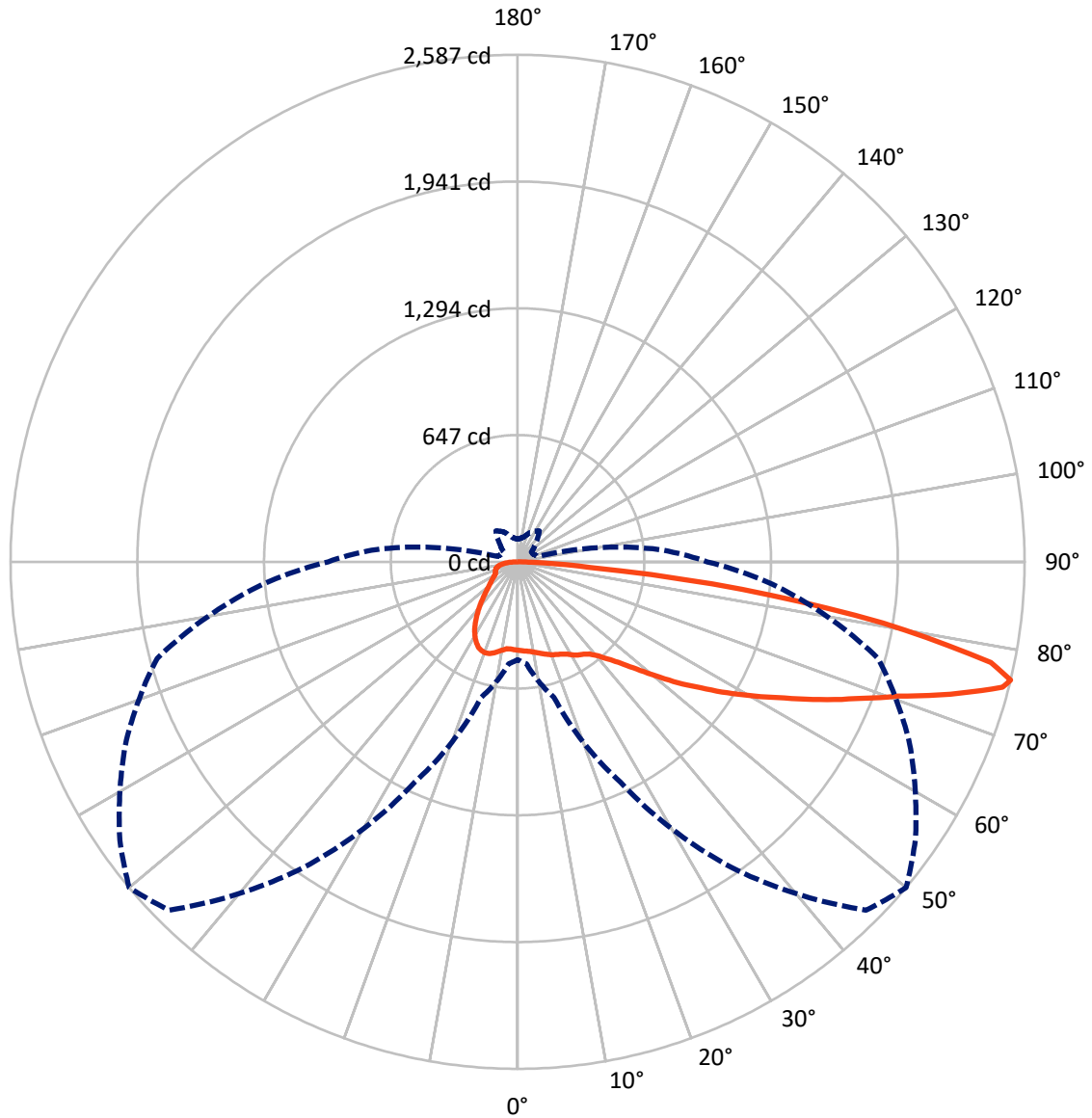
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594603
CATALOG NUMBER: ISS-PA1B-830-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

REPORT NUMBER: P594603
 CATALOG NUMBER: ISS-PA1B-830-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.2	0.0	946.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3189.8	0.0	3189.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	4136.0	0.0	4136.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.1
10°-20°	137.6	3.3
20°-30°	232.5	5.6
30°-40°	318.7	7.7
40°-50°	469.3	11.3
50°-60°	738.3	17.9
60°-70°	1062.7	25.7
70°-80°	966.3	23.4
80°-90°	166.8	4.0
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°	4136.0	100.0
0°-180°	4136.0	100.0

Coefficient of Utilization

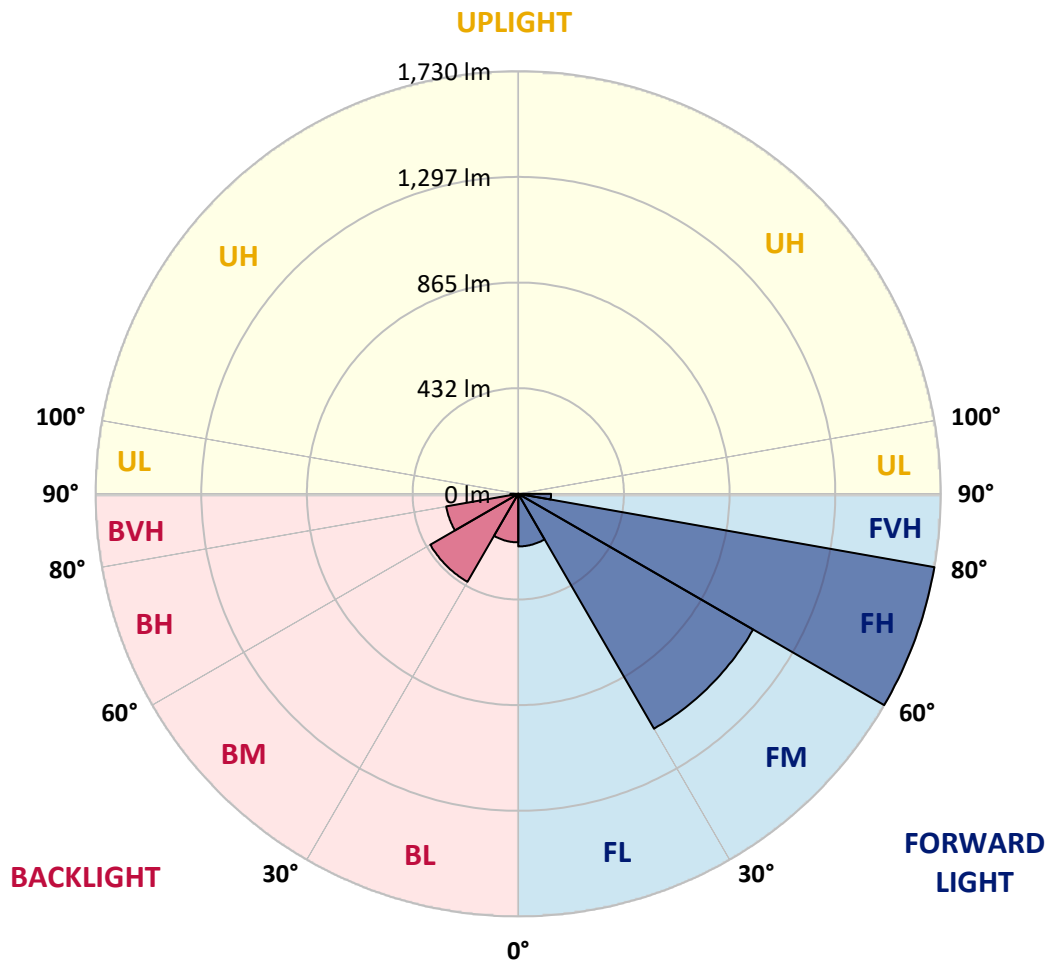


REPORT NUMBER: P594603
 CATALOG NUMBER: ISS-PA1B-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.3	5.2			
FM (30°-60°)	1110.4	26.8			
FH (60°-80°)	1729.9	41.8			G1/1800
FVH (80°-90°)	134.3	3.2			G2/225
BL (0°-30°)	198.6	4.8	B1/500		
BM (30°-60°)	415.8	10.1	B1/1000		
BH (60°-80°)	299.1	7.2	B1/500		G1/500
BVH (80°-90°)	32.5	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-G2
 Type IV Medium





REPORT NUMBER: P594603
 CATALOG NUMBER: ISS-PA1B-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8
2.5°	460.9	460.9	462.0	459.9	459.9	454.9	454.9	453.9	451.8	450.8	448.8
5°	478.2	478.2	475.1	470.1	467.0	460.9	457.9	455.9	451.8	446.8	441.7
7.5°	496.4	494.4	492.4	484.2	478.2	467.0	462.0	458.9	450.8	443.7	440.7
10°	515.7	512.6	507.5	497.4	488.3	475.1	469.0	465.0	455.9	449.8	442.7
12.5°	526.8	526.8	520.7	508.6	496.4	480.2	477.2	472.1	463.0	454.9	447.8
15°	537.9	539.0	532.9	518.7	504.5	492.4	487.3	484.2	474.1	462.0	452.8
17.5°	549.1	548.1	542.0	525.8	510.6	499.4	496.4	492.4	482.2	471.1	462.0
20°	557.2	555.2	553.1	532.9	517.7	510.6	506.5	503.5	493.4	481.2	469.0
22.5°	559.2	561.2	559.2	534.9	522.7	514.6	513.6	510.6	502.5	491.3	479.2
25°	560.2	561.2	564.3	541.0	529.8	523.8	521.7	519.7	513.6	504.5	488.3
27.5°	565.3	566.3	566.3	545.0	539.0	534.9	532.9	532.9	529.8	518.7	502.5
30°	566.3	567.3	569.3	555.2	553.1	550.1	551.1	550.1	545.0	532.9	514.6
32.5°	573.4	574.4	579.5	561.2	563.3	566.3	567.3	566.3	556.2	546.0	530.8
35°	596.7	595.7	599.7	576.4	574.4	575.4	578.5	577.4	573.4	564.3	554.1
37.5°	671.7	671.7	660.5	611.9	596.7	594.7	596.7	601.8	602.8	594.7	586.6
40°	803.4	796.3	790.2	684.8	636.2	624.0	630.1	633.2	641.3	641.3	641.3
42.5°	939.1	940.1	938.1	798.3	707.1	676.7	677.7	684.8	702.1	705.1	714.2
45°	1059.7	1066.8	1082.0	930.0	811.5	743.6	736.5	743.6	767.9	788.2	811.5
47.5°	1153.9	1145.8	1179.2	1067.8	931.0	834.8	816.5	818.6	852.0	884.4	920.9
50°	1234.9	1237.0	1252.2	1208.6	1082.0	938.1	913.8	909.7	957.3	991.8	1053.6
52.5°	1326.1	1320.0	1342.3	1332.2	1228.8	1064.7	1026.2	1014.1	1065.7	1114.4	1181.2
55°	1369.7	1375.7	1421.3	1446.7	1367.6	1178.2	1135.6	1139.7	1194.4	1246.1	1339.3
57.5°	1446.7	1452.7	1505.4	1558.1	1491.2	1298.8	1261.3	1261.3	1323.1	1380.8	1524.7
60°	1552.0	1553.0	1606.7	1697.9	1599.6	1415.3	1390.9	1389.9	1456.8	1523.7	1743.5
62.5°	1598.6	1610.8	1690.8	1809.3	1741.5	1558.1	1529.7	1537.8	1597.6	1675.6	1987.6
65°	1535.8	1562.1	1729.3	1884.3	1868.1	1707.0	1695.9	1707.0	1743.5	1827.6	2246.0
67.5°	1328.1	1363.6	1658.4	1935.0	1969.4	1879.2	1863.0	1861.0	1884.3	1978.5	2409.1
70°	1220.7	1242.0	1471.0	1954.2	2050.4	2053.5	2053.5	2040.3	2037.3	2106.2	2424.3
72.5°	1005.0	1027.2	1241.0	1846.8	2127.4	2286.5	2309.8	2261.2	2186.2	2172.0	2170.0
75°	716.2	732.4	916.8	1452.7	2029.2	2510.4	2557.0	2462.8	2254.1	2028.2	1582.4
76°	499.4	522.7	716.2	1241.0	1905.6	2514.4	2587.4	2478.0	2208.5	1904.6	1303.8
77.5°	253.3	261.4	414.3	833.8	1594.6	2398.9	2469.9	2347.3	2009.9	1538.8	827.7
80°	96.2	99.3	147.9	303.9	875.3	1863.0	1890.4	1725.3	1330.2	657.5	297.8
82.5°	50.7	52.7	83.1	149.9	359.6	1024.2	1155.9	962.4	521.7	197.5	87.1
85°	25.3	27.4	48.6	91.2	178.3	320.1	370.8	350.5	173.2	75.0	32.4
87.5°	10.1	12.2	24.3	40.5	71.9	62.8	69.9	90.2	55.7	35.5	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594603
 CATALOG NUMBER: ISS-PA1B-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8
2.5°	448.8	447.8	448.8	447.8	448.8	448.8	449.8	447.8	447.8	449.8	446.8
5°	441.7	440.7	441.7	443.7	444.7	446.8	450.8	449.8	451.8	453.9	454.9
7.5°	438.7	437.6	440.7	441.7	444.7	448.8	454.9	458.9	460.9	465.0	463.0
10°	441.7	441.7	445.7	448.8	453.9	458.9	464.0	468.0	473.1	476.1	475.1
12.5°	446.8	445.7	452.8	456.9	464.0	469.0	473.1	475.1	479.2	483.2	482.2
15°	451.8	452.8	463.0	471.1	479.2	481.2	482.2	480.2	482.2	484.2	484.2
17.5°	462.0	463.0	474.1	483.2	490.3	488.3	483.2	478.2	478.2	479.2	480.2
20°	470.1	472.1	485.3	493.4	497.4	489.3	481.2	475.1	472.1	473.1	472.1
22.5°	479.2	483.2	496.4	500.5	494.4	484.2	474.1	466.0	466.0	467.0	467.0
25°	490.3	492.4	501.5	499.4	488.3	473.1	465.0	462.0	460.9	462.0	463.0
27.5°	500.5	501.5	506.5	492.4	471.1	454.9	451.8	452.8	453.9	454.9	455.9
30°	513.6	515.7	510.6	482.2	449.8	431.6	431.6	437.6	439.7	442.7	441.7
32.5°	529.8	531.9	516.7	469.0	422.4	404.2	405.2	414.3	420.4	422.4	423.5
35°	557.2	553.1	520.7	450.8	393.1	370.8	371.8	382.9	391.0	394.1	392.1
37.5°	590.6	589.6	526.8	427.5	356.6	336.3	337.4	342.4	350.5	351.5	352.5
40°	646.3	638.2	536.9	397.1	320.1	300.9	298.9	301.9	300.9	302.9	303.9
42.5°	726.4	705.1	550.1	362.7	287.7	267.4	265.4	260.4	254.3	248.2	245.2
45°	820.6	787.2	566.3	327.2	254.3	236.0	231.0	224.9	212.7	199.6	195.5
47.5°	942.2	878.3	584.5	291.8	222.9	208.7	204.6	195.5	181.3	166.1	163.1
50°	1066.8	985.7	602.8	262.4	197.5	189.4	185.4	176.3	158.0	143.9	140.8
52.5°	1211.6	1092.1	622.0	236.0	175.3	175.3	172.2	158.0	140.8	127.6	125.6
55°	1378.8	1201.5	652.4	210.7	159.1	163.1	159.1	144.9	128.7	119.5	118.5
57.5°	1578.4	1340.3	690.9	183.4	144.9	147.9	147.9	137.8	126.6	120.6	119.5
60°	1778.9	1481.1	715.2	163.1	133.7	136.8	142.8	137.8	130.7	127.6	126.6
62.5°	1971.4	1625.0	673.7	145.9	122.6	131.7	146.9	147.9	140.8	141.8	141.8
65°	2115.3	1734.4	545.0	130.7	115.5	134.7	159.1	160.1	147.9	144.9	143.9
67.5°	2164.9	1764.8	366.7	120.6	111.4	136.8	173.2	169.2	147.9	141.8	138.8
70°	2070.7	1653.3	238.1	111.4	105.4	134.7	184.4	174.2	146.9	137.8	133.7
72.5°	1736.4	1410.2	159.1	103.3	99.3	132.7	191.5	174.2	143.9	130.7	126.6
75°	1205.5	963.4	118.5	93.2	90.2	129.7	193.5	171.2	136.8	122.6	119.5
76°	967.5	722.3	107.4	89.1	86.1	127.6	192.5	168.2	131.7	118.5	115.5
77.5°	610.9	415.4	90.2	82.1	80.0	123.6	188.4	161.1	124.6	111.4	108.4
80°	213.8	152.0	68.9	66.9	67.9	114.5	177.3	146.9	110.4	98.3	94.2
82.5°	85.1	69.9	51.7	51.7	53.7	98.3	160.1	129.7	96.2	81.0	75.0
85°	33.4	30.4	36.5	36.5	38.5	80.0	133.7	101.3	65.8	50.7	48.6
87.5°	10.1	14.2	16.2	17.2	18.2	40.5	76.0	44.6	29.4	21.3	17.2
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)