

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: P532076

Luminaire Tested: **GALN-SA7B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28419 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 286
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: 24 FT



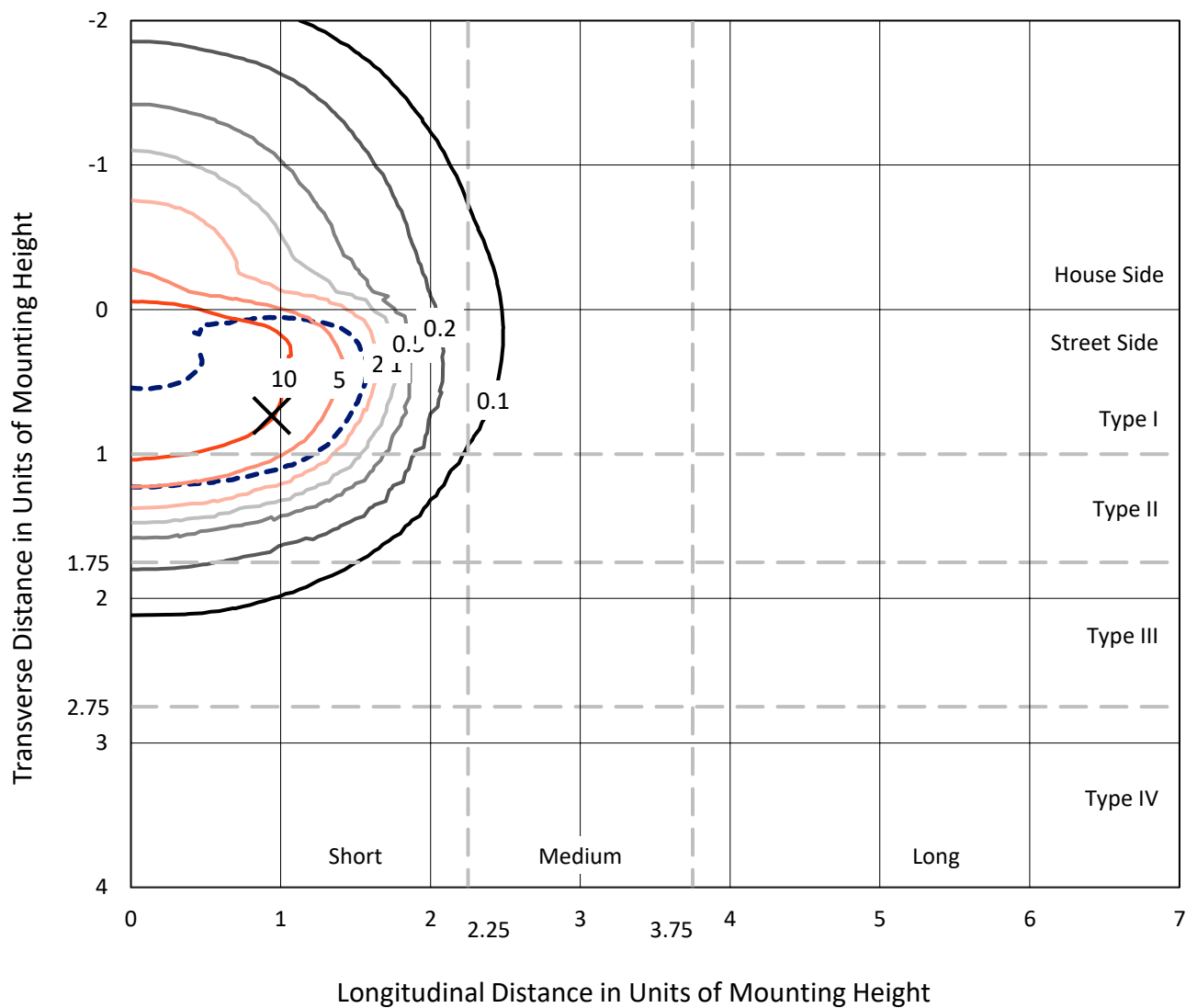
REPORT NUMBER: P532076

CATALOG NUMBER: GALN-SA7B-830-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

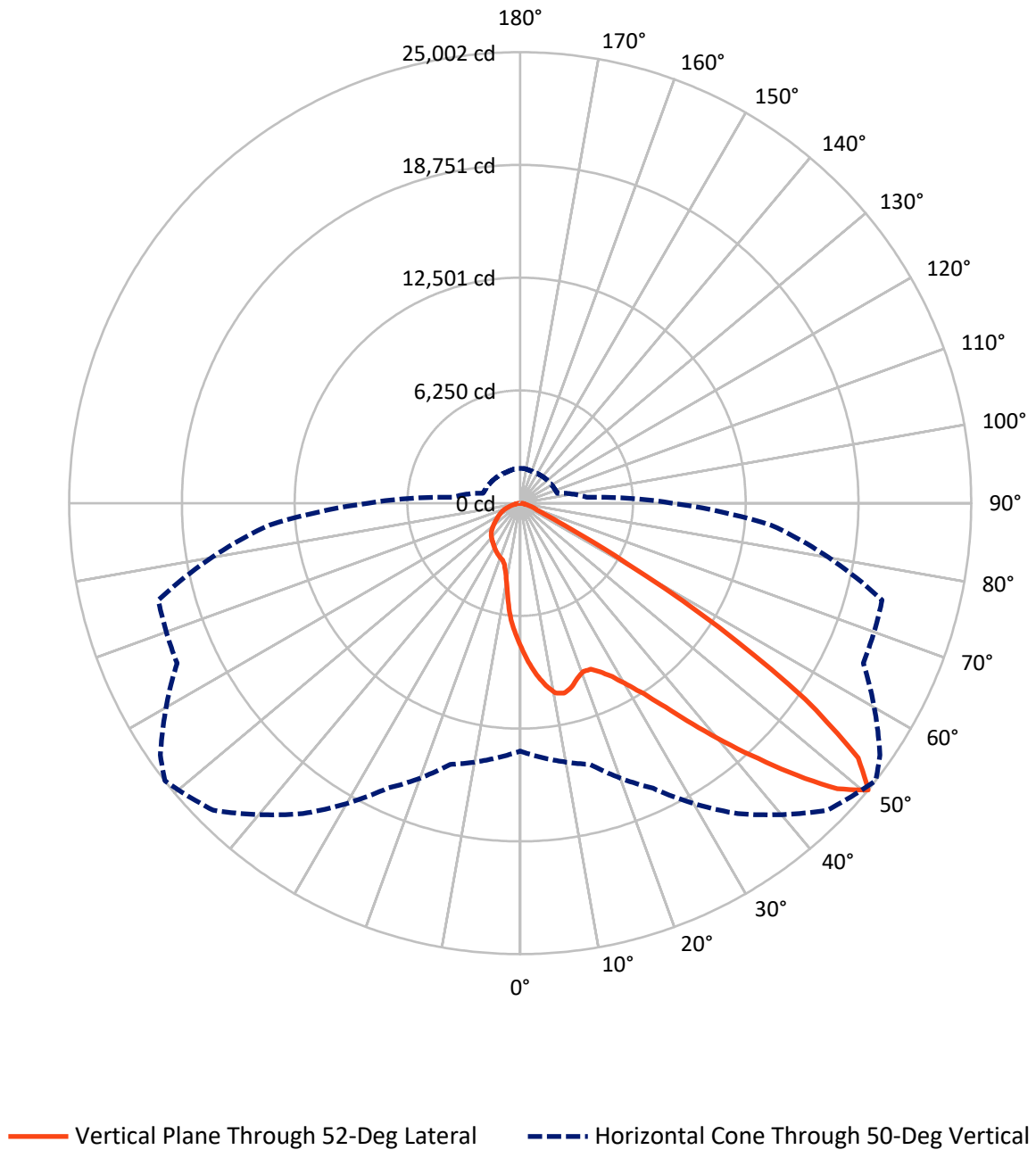


Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

REPORT NUMBER: P532076

CATALOG NUMBER: GALN-SA7B-830-U-AFL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P532076

CATALOG NUMBER: GALN-SA7B-830-U-AFL-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5342.1	0.0	5342.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23076.9	0.0	23076.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	28419.0	0.0	28419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.4	2.6
10°-20°	1979.0	7.0
20°-30°	3333.5	11.7
30°-40°	5593.9	19.7
40°-50°	8557.3	30.1
50°-60°	6239.0	22.0
60°-70°	1388.5	4.9
70°-80°	500.8	1.8
80°-90°	88.6	0.3
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°	28419.0	100.0
0°-180°	28419.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532076

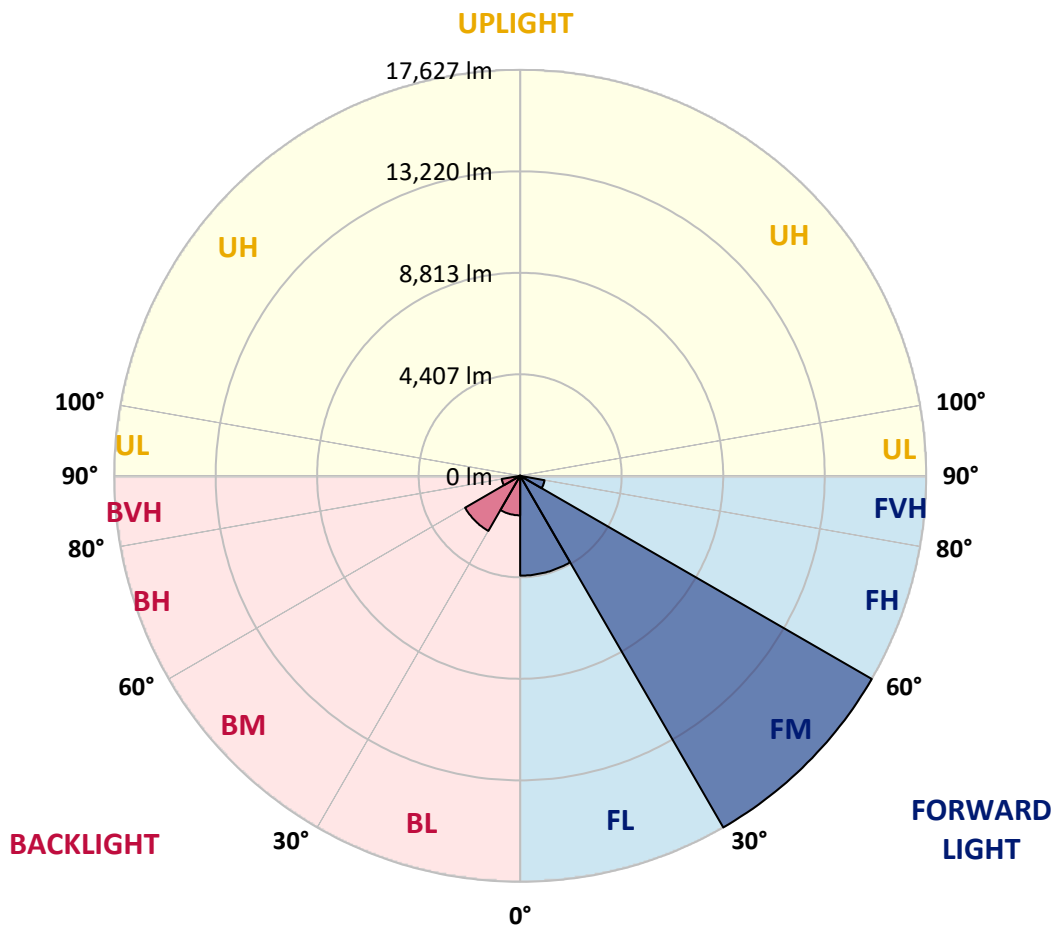
CATALOG NUMBER: GALN-SA7B-830-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4334.9	15.3			
FM	(30°-60°)	17626.9	62.0			
FH	(60°-80°)	1075.4	3.8			G1/1800
FVH	(80°-90°)	39.7	0.1			G1/100
BL	(0°-30°)	1716.0	6.0	B3/2500		
BM	(30°-60°)	2763.3	9.7	B3/5000		
BH	(60°-80°)	813.9	2.9	B2/1000		G2/1000
BVH	(80°-90°)	48.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



REPORT NUMBER: P532076

CATALOG NUMBER: GALN-SA7B-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8
2.5°	9432.2	9250.7	9271.2	9141.1	9000.6	8959.5	8815.7	8678.7	8576.0	8356.8	8154.7
5°	10309.0	10254.2	10172.0	10069.2	9963.0	9702.7	9555.5	9384.2	9007.5	8668.4	8332.8
7.5°	10435.7	10425.4	10469.9	10469.9	10507.6	10408.3	10199.4	10079.5	9678.8	9127.4	8504.0
10°	9545.2	9576.0	9791.8	10072.6	10463.1	10733.6	10699.4	10668.6	10230.2	9476.7	8706.1
12.5°	8836.2	8767.7	8894.5	9134.2	9719.9	10374.0	10815.8	10819.3	10706.2	10035.0	8853.4
15°	8435.5	8483.5	8517.7	8630.8	9072.6	9829.5	10606.9	10836.4	11333.0	10428.8	9086.3
17.5°	8692.4	8531.4	8524.6	8552.0	8778.0	9346.6	10219.9	10613.8	11675.5	10935.7	9374.0
20°	9028.0	9024.6	8928.7	8894.5	8891.0	9397.9	9966.5	10500.7	11857.0	11593.3	9665.1
22.5°	9617.1	9617.1	9459.6	9384.2	9223.3	9637.7	10000.7	10363.8	12158.4	12045.4	9805.5
25°	10603.5	10442.5	10172.0	9987.0	9894.5	10041.8	10363.8	10689.1	12422.1	12524.9	10096.6
27.5°	11514.5	11261.1	11127.5	10809.0	10685.7	10600.1	10894.6	11223.4	12730.4	13271.5	10254.2
30°	12548.8	12504.3	12264.6	11853.6	11548.8	11391.2	11661.8	11987.2	13295.5	14035.2	10617.2
32.5°	14398.3	13994.1	13668.8	13165.3	12668.7	12333.1	12600.2	12816.0	14233.9	14833.2	11014.5
35°	16395.0	16264.9	15703.2	14795.6	14035.2	13733.9	13891.4	14052.4	15326.4	16052.5	11682.3
37.5°	18357.5	18179.4	17717.0	16953.3	16028.5	15415.5	15528.5	15716.9	16552.5	17696.5	12497.5
40°	19768.5	19549.3	19316.4	19203.4	18285.5	17446.4	17381.4	17429.3	18210.2	19237.7	13401.6
42.5°	19871.3	20141.8	20213.8	20669.3	20453.5	19765.1	19364.4	19374.7	19792.5	20761.8	14316.1
45°	19655.5	19405.5	19936.4	21179.6	21892.0	22213.9	21539.2	21453.6	20772.0	21645.4	14771.6
47.5°	17391.7	17460.1	18357.5	20323.4	22381.7	23820.2	23662.6	23378.4	21296.0	21614.6	14699.7
50°	13747.6	14162.0	14994.2	17443.0	21011.8	24073.6	25001.8	24344.2	20984.4	20765.2	13966.7
52.5°	9154.8	9326.0	9874.0	13035.2	16895.0	21518.7	23460.6	23611.3	20696.7	19652.1	13038.6
55°	4075.6	4061.9	4832.5	6808.7	10600.1	16374.5	19169.2	20087.0	19590.4	18518.4	12134.4
57.5°	1726.2	1784.4	2099.5	2942.0	5212.7	9880.8	12987.2	13792.1	15066.1	15206.6	9308.9
60°	1167.9	1174.7	1260.4	1472.7	2181.7	4640.7	6812.1	7778.0	8689.0	8627.3	4938.7
62.5°	917.9	941.8	1006.9	1092.5	1294.6	2106.3	3048.2	3585.9	3644.1	3065.3	1873.4
65°	784.3	787.7	852.8	924.7	1013.8	1226.1	1469.3	1496.7	1513.8	1459.0	1376.8
67.5°	647.3	654.2	705.5	787.7	869.9	938.4	1006.9	1041.2	1119.9	1274.1	1253.5
70°	513.7	524.0	568.5	637.0	712.4	753.5	839.1	869.9	941.8	1061.7	1109.7
72.5°	390.4	393.9	431.5	479.5	548.0	589.1	661.0	695.3	743.2	846.0	890.5
75°	280.8	291.1	318.5	342.5	352.8	380.2	448.7	486.3	554.8	599.4	602.8
77.5°	147.3	154.1	161.0	161.0	195.2	246.6	291.1	311.7	359.6	393.9	376.7
80°	58.2	61.6	78.8	106.2	137.0	178.1	208.9	219.2	260.3	280.8	291.1
82.5°	34.2	37.7	51.4	75.3	99.3	126.7	150.7	161.0	188.4	212.3	219.2
85°	17.1	20.5	30.8	47.9	65.1	78.8	75.3	71.9	71.9	68.5	71.9
87.5°	6.8	6.8	10.3	10.3	10.3	13.7	17.1	17.1	17.1	20.5	20.5
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: P532076

CATALOG NUMBER: GALN-SA7B-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8	8010.8
2.5°	8021.1	7884.1	7757.4	7524.5	7271.1	7199.1	6904.6	6798.4	6723.1	6634.0	6606.6
5°	8062.2	7880.7	7473.1	7003.9	6630.6	6151.1	5836.0	5497.0	5250.4	5188.7	5171.6
7.5°	8147.8	7836.2	7134.1	6425.1	5661.4	5010.6	4514.0	4246.9	4010.6	3996.9	3972.9
10°	8243.7	7702.6	6764.2	5651.1	4675.0	4072.2	3774.2	3657.8	3599.6	3585.9	3579.0
12.5°	8322.5	7675.2	6349.8	4897.6	3976.3	3613.3	3524.2	3513.9	3537.9	3544.8	3558.5
15°	8356.8	7565.6	5849.7	4222.9	3541.3	3407.8	3445.5	3486.5	3503.7	3548.2	3513.9
17.5°	8421.8	7425.2	5233.2	3688.6	3298.2	3322.2	3387.2	3435.2	3462.6	3493.4	3448.9
20°	8456.1	7298.5	4654.4	3370.1	3212.6	3257.1	3346.1	3383.8	3418.1	3431.8	3380.4
22.5°	8425.3	7038.2	4144.1	3113.2	3130.4	3188.6	3267.4	3308.5	3287.9	3233.1	3202.3
25°	8343.1	6671.7	3613.3	2948.8	3013.9	3116.7	3178.3	3147.5	3109.8	3079.0	3068.7
27.5°	8339.6	6223.0	3229.7	2798.1	2914.6	3055.0	3034.5	3007.1	3024.2	3000.2	2972.8
30°	8356.8	5788.1	2914.6	2712.5	2842.7	2911.2	2935.1	2907.7	2928.3	2883.8	2897.5
32.5°	8267.7	5363.4	2709.1	2613.2	2757.0	2753.6	2832.4	2852.9	2805.0	2712.5	2726.2
35°	8305.4	5020.9	2534.4	2568.7	2661.1	2661.1	2722.8	2698.8	2572.1	2517.3	2531.0
37.5°	8565.7	4685.3	2448.8	2507.0	2568.7	2596.1	2575.5	2472.8	2442.0	2442.0	2448.8
40°	8812.3	4397.6	2397.4	2493.3	2483.1	2500.2	2349.5	2359.8	2359.8	2363.2	2346.1
42.5°	9031.5	4202.4	2356.3	2411.1	2428.3	2339.2	2246.7	2236.5	2260.4	2257.0	2243.3
45°	9110.2	4041.4	2298.1	2318.7	2332.4	2185.1	2140.6	2120.0	2147.4	2157.7	2171.4
47.5°	8808.8	3907.8	2233.0	2191.9	2164.5	2068.6	2010.4	1972.7	2007.0	2065.2	2078.9
50°	8421.8	3733.1	2130.3	2051.5	1993.3	1952.2	1911.1	1873.4	1897.4	1938.5	1928.2
52.5°	7849.9	3459.2	2000.1	1917.9	1818.6	1828.9	1791.2	1770.7	1784.4	1784.4	1774.1
55°	7034.7	2842.7	1780.9	1722.7	1640.5	1667.9	1674.8	1647.4	1620.0	1644.0	1623.4
57.5°	4801.7	2007.0	1589.2	1589.2	1507.0	1544.6	1541.2	1476.1	1411.1	1417.9	1404.2
60°	2777.6	1599.4	1465.9	1452.2	1366.5	1397.4	1404.2	1359.7	1260.4	1267.2	1253.5
62.5°	1578.9	1366.5	1280.9	1260.4	1243.2	1270.6	1270.6	1212.4	1126.8	1133.6	1119.9
65°	1342.6	1267.2	1143.9	1140.5	1133.6	1140.5	1113.1	1051.4	976.1	945.3	948.7
67.5°	1219.3	1171.3	1051.4	1020.6	1000.1	996.6	945.3	887.0	852.8	825.4	822.0
70°	1068.6	1030.9	941.8	900.7	880.2	832.3	780.9	743.2	695.3	681.6	695.3
72.5°	846.0	842.5	808.3	763.8	719.2	681.6	637.0	585.7	541.1	530.9	506.9
75°	585.7	592.5	599.4	592.5	554.8	506.9	455.5	414.4	359.6	328.8	321.9
77.5°	383.6	393.9	404.1	390.4	366.5	321.9	287.7	236.3	195.2	171.2	167.8
80°	280.8	294.5	301.4	291.1	263.7	229.5	191.8	150.7	119.9	99.3	99.3
82.5°	215.8	229.5	236.3	219.2	191.8	164.4	137.0	106.2	82.2	65.1	61.6
85°	75.3	71.9	85.6	89.0	106.2	99.3	82.2	61.6	47.9	34.2	30.8
87.5°	20.5	20.5	24.0	24.0	20.5	17.1	17.1	17.1	13.7	10.3	10.3
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)