

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: P531983

Luminaire Tested: **GALN-SA7B-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23379 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

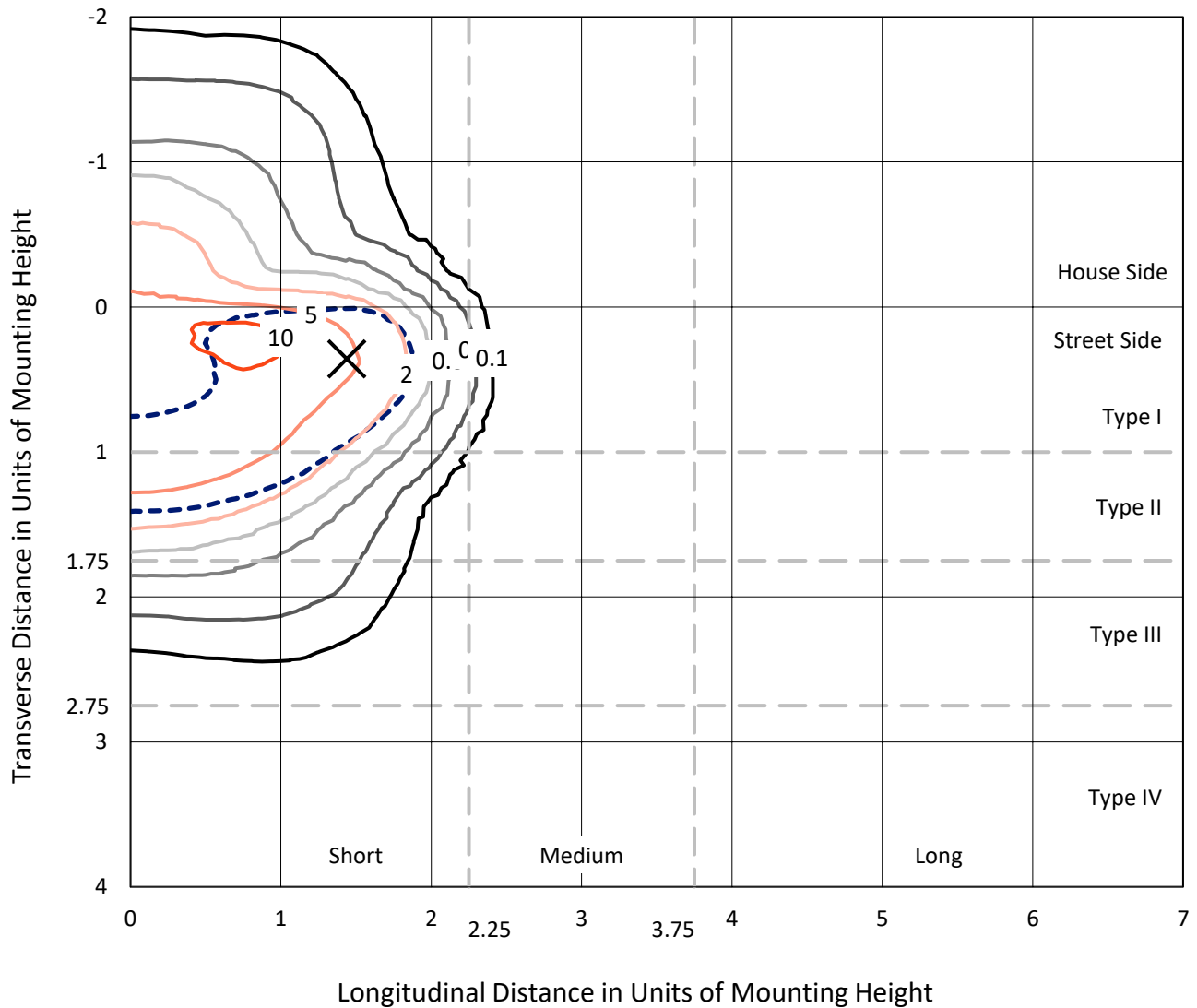
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

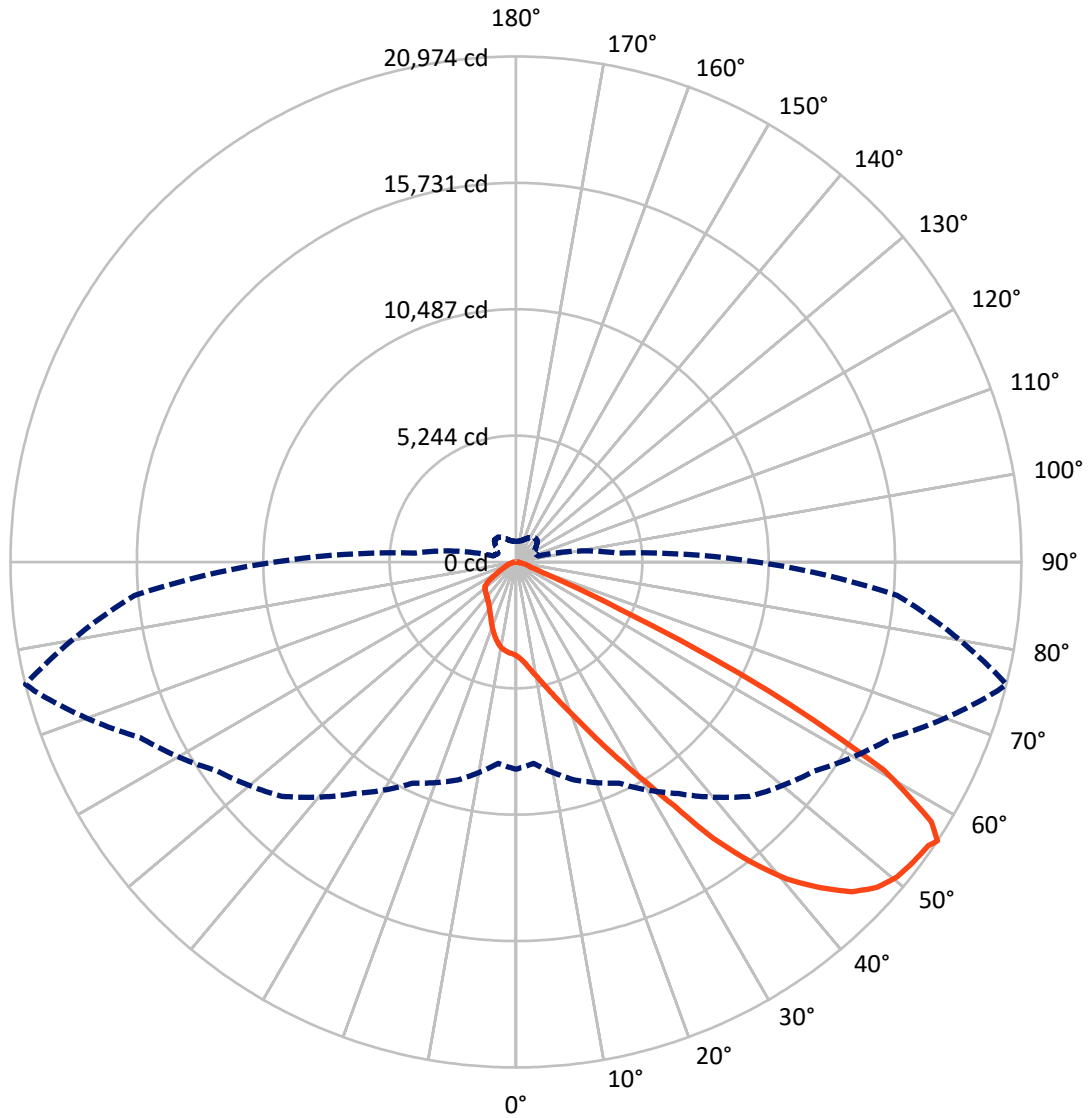
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3672.7	0.0	3672.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	19706.3	0.0	19706.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	23379.0	0.0	23379.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.0	1.7
10°-20°	1259.4	5.4
20°-30°	2283.6	9.8
30°-40°	3938.2	16.8
40°-50°	6397.7	27.4
50°-60°	6743.4	28.8
60°-70°	2060.4	8.8
70°-80°	264.1	1.1
80°-90°	40.1	0.2
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°	23379.0	100.0
0°-180°	23379.0	100.0

**Coefficient of Utilization**

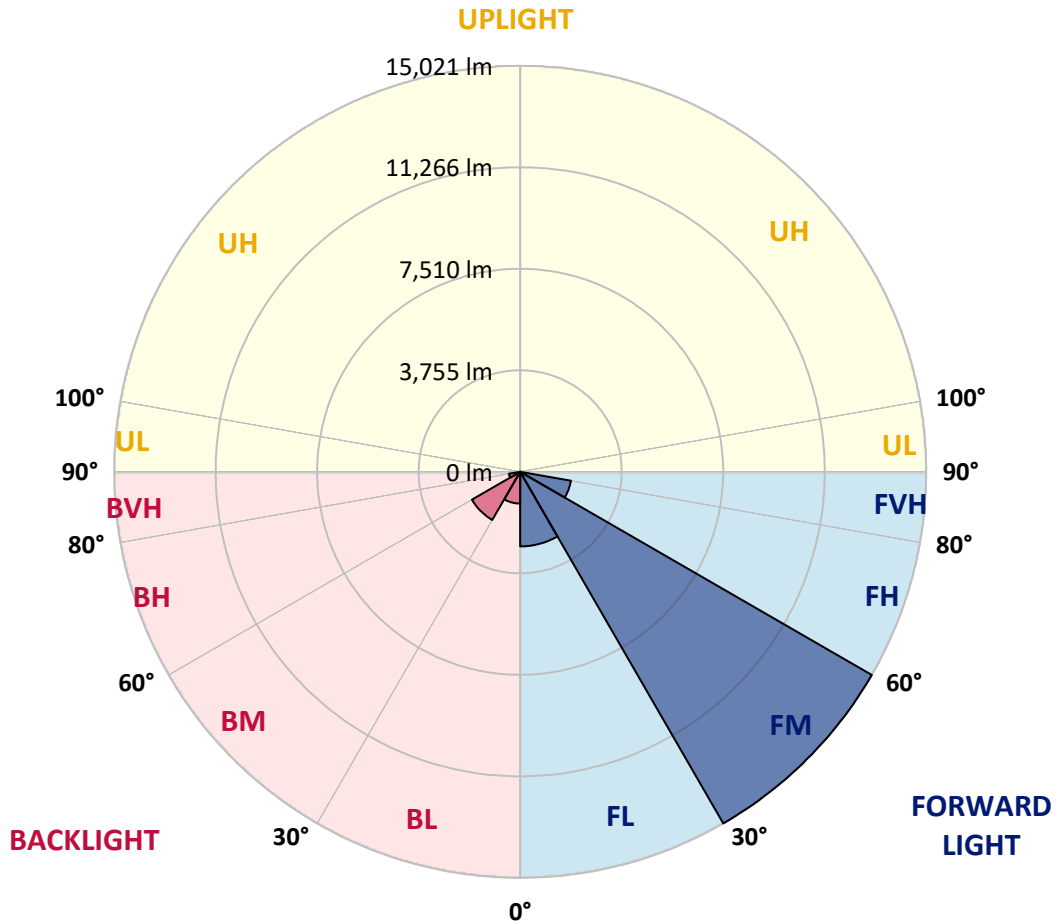


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.1	11.8			
FM (30°-60°)	15021.0	64.2			
FH (60°-80°)	1905.5	8.2			G2/5000
FVH (80°-90°)	19.7	0.1			G1/100
BL (0°-30°)	1174.9	5.0	B3/2500		
BM (30°-60°)	2058.3	8.8	B2/2500		
BH (60°-80°)	419.0	1.8	B1/500		G1/500
BVH (80°-90°)	20.5	0.1			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5
2.5°	4481.9	4378.4	4382.8	4374.1	4361.2	4313.8	4171.6	4150.0	4055.2	4029.4	3943.2
5°	5020.6	4930.1	4981.8	4904.2	4830.9	4787.8	4555.1	4447.4	4296.6	4240.5	4119.9
7.5°	5356.7	5313.6	5296.4	5300.7	5231.7	5124.0	5020.6	4783.5	4581.0	4537.9	4283.6
10°	5520.5	5494.6	5520.5	5507.5	5537.7	5550.6	5369.6	5227.4	4930.1	4856.8	4460.3
12.5°	5559.2	5611.0	5632.5	5688.5	5761.8	5886.8	5873.8	5679.9	5283.4	5236.0	4731.8
15°	5654.1	5697.1	5675.6	5766.1	5904.0	6115.2	6227.2	6197.0	5770.4	5684.2	5046.4
17.5°	5740.2	5662.7	5735.9	5916.9	6054.8	6378.0	6649.5	6774.5	6300.5	6201.4	5335.1
20°	5856.6	5835.0	5822.1	5912.6	6158.3	6589.2	7127.9	7356.3	6895.2	6791.8	5748.9
22.5°	6210.0	6214.3	6205.7	6072.1	6248.8	6735.7	7545.9	8110.5	7606.3	7520.1	6218.6
25°	6675.4	6619.4	6576.3	6468.5	6447.0	6869.3	7968.2	9032.7	8459.5	8399.2	6727.1
27.5°	7166.7	7166.7	7037.4	6938.3	6800.4	7201.2	8356.1	9929.1	9489.5	9407.6	7171.0
30°	7701.1	7731.2	7714.0	7502.8	7416.6	7563.2	8752.6	11075.4	10670.3	10566.9	7903.6
32.5°	8489.7	8425.1	8498.3	8321.6	8067.4	8196.7	9377.5	12101.0	12204.5	12058.0	8864.6
35°	9532.6	9493.8	9446.4	9157.7	8856.0	8959.4	10260.9	13363.7	14130.8	14057.6	9834.3
37.5°	10467.8	10446.2	10407.4	10209.2	9860.1	9985.1	11265.0	14678.1	16009.8	15768.4	11204.7
40°	11450.3	11566.7	11441.7	11265.0	10946.1	11221.9	12445.8	15458.1	17591.3	17298.3	12251.9
42.5°	12781.9	12691.4	12747.5	12424.3	12251.9	12553.5	13630.9	16238.2	18819.5	18470.5	13363.7
45°	14199.8	14204.1	14053.2	13949.8	13501.6	13829.2	14359.2	16669.1	19797.8	19526.3	14204.1
47.5°	15109.1	15104.8	15268.5	15432.3	14971.2	14648.0	14854.8	17078.5	20302.0	20177.0	14510.1
50°	14966.9	15010.0	15221.1	15833.1	16074.4	15639.1	15320.2	16957.8	20530.4	20517.5	14772.9
52.5°	13019.0	13161.2	13514.6	14398.0	15613.3	16152.0	15807.2	17181.9	20642.5	20664.0	15165.1
55°	9911.8	9989.4	10661.7	11734.7	13079.3	14923.8	15613.3	17358.6	20728.6	20767.4	15639.1
56°	8597.4	8390.6	9360.2	10123.0	11730.4	13747.3	15122.0	17220.7	20676.9	20974.3	15876.2
57.5°	6490.1	6352.2	7136.5	8088.9	9636.0	11764.9	13596.4	16570.0	20327.9	20323.6	15535.7
60°	3947.5	3809.6	4412.9	4973.2	5839.4	7244.3	9187.8	13195.7	17186.2	17548.2	12579.4
62.5°	2348.7	2434.9	3029.6	3370.0	3650.1	3796.7	4753.4	7843.3	11467.6	11726.1	7804.5
65°	1564.3	1594.5	2042.7	2602.9	2727.9	2172.0	1935.0	3176.1	4973.2	4813.7	3219.2
67.5°	965.3	1034.3	1370.4	1956.5	2167.7	1585.9	917.9	1185.1	1370.4	1370.4	930.8
70°	586.1	620.6	913.6	1331.6	1486.8	1021.3	668.0	668.0	659.4	646.4	555.9
72.5°	280.1	301.7	465.4	685.2	698.1	538.7	517.1	564.5	551.6	547.3	461.1
75°	120.7	129.3	163.8	215.5	245.6	228.4	314.6	405.1	418.0	405.1	331.8
77.5°	38.8	43.1	60.3	77.6	81.9	99.1	133.6	168.1	193.9	181.0	163.8
80°	4.3	8.6	17.2	38.8	60.3	77.6	99.1	112.0	125.0	125.0	116.4
82.5°	4.3	4.3	17.2	34.5	56.0	73.3	94.8	107.7	125.0	129.3	120.7
85°	0.0	4.3	12.9	30.2	47.4	47.4	43.1	43.1	30.2	30.2	30.2
87.5°	0.0	0.0	4.3	4.3	4.3	8.6	8.6	8.6	8.6	8.6	8.6
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°	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5
2.5°	3925.9	3917.3	3801.0	3727.7	3688.9	3611.4	3563.9	3529.5	3503.6	3473.4	3477.8
5°	3977.7	3947.5	3753.6	3620.0	3460.5	3374.3	3301.1	3240.7	3202.0	3193.3	3176.1
7.5°	4124.2	3964.7	3671.7	3430.4	3227.8	3141.6	3077.0	3038.2	3055.4	3016.6	3046.8
10°	4236.2	3999.2	3572.6	3223.5	3021.0	2956.3	2921.8	2952.0	2995.1	2977.9	2956.3
12.5°	4374.1	4033.7	3413.1	3025.3	2835.6	2788.2	2848.6	2904.6	2990.8	3025.3	2982.2
15°	4529.3	4072.5	3210.6	2796.9	2676.2	2715.0	2818.4	2917.5	3003.7	3046.8	3072.7
17.5°	4718.9	4059.5	3012.3	2615.9	2525.4	2637.4	2762.4	2852.9	2982.2	3046.8	3029.6
20°	4895.6	4016.4	2792.5	2434.9	2439.2	2542.6	2646.0	2792.5	2861.5	2947.7	2917.5
22.5°	5063.7	3938.9	2564.1	2309.9	2309.9	2469.3	2521.1	2615.9	2676.2	2719.3	2715.0
25°	5300.7	3792.4	2374.5	2189.2	2240.9	2344.4	2387.5	2417.6	2391.8	2426.2	2430.6
27.5°	5468.7	3641.5	2219.4	2081.5	2176.3	2253.9	2240.9	2223.7	2163.4	2116.0	2146.1
30°	5649.7	3464.8	2085.8	2008.2	2059.9	2128.9	2077.2	2025.5	1930.7	1853.1	1857.4
32.5°	5908.3	3382.9	1969.4	1922.0	1991.0	1999.6	1943.6	1866.0	1771.2	1697.9	1693.6
35°	6391.0	3331.2	1870.3	1866.0	1878.9	1883.2	1827.2	1732.4	1693.6	1633.3	1654.8
37.5°	6873.6	3305.4	1801.4	1784.1	1779.8	1784.1	1719.5	1629.0	1702.2	1697.9	1706.6
40°	7489.9	3421.7	1702.2	1680.7	1685.0	1685.0	1603.1	1577.3	1706.6	1719.5	1723.8
42.5°	8114.8	3568.3	1637.6	1568.7	1585.9	1585.9	1542.8	1512.6	1603.1	1516.9	1504.0
45°	8657.8	3783.7	1568.7	1456.6	1499.7	1521.3	1508.3	1456.6	1400.6	1254.1	1254.1
47.5°	8834.5	3973.4	1486.8	1348.9	1383.3	1478.2	1439.4	1331.6	1232.5	1111.8	1103.2
50°	9144.7	4180.2	1422.1	1223.9	1297.2	1413.5	1374.7	1267.0	1154.9	1068.8	1073.1
52.5°	9463.6	4417.2	1301.5	1077.4	1167.9	1361.8	1361.8	1241.1	1068.8	1008.4	999.8
55°	9942.0	4408.6	1086.0	883.4	1042.9	1284.2	1305.8	1111.8	956.7	909.3	909.3
56°	10010.9	4210.4	978.3	827.4	986.9	1262.7	1267.0	1077.4	913.6	861.9	861.9
57.5°	9493.8	3801.0	857.6	758.5	917.9	1223.9	1228.2	1047.2	879.1	805.9	797.3
60°	7304.6	2572.8	715.4	676.6	831.7	1103.2	1124.8	952.4	771.4	715.4	711.1
62.5°	4124.2	1426.4	629.2	611.9	715.4	939.5	1004.1	831.7	655.0	624.9	633.5
65°	1883.2	784.3	530.1	495.6	577.5	724.0	810.2	685.2	538.7	504.2	504.2
67.5°	689.5	534.4	452.5	392.2	405.1	469.7	525.8	443.9	357.7	306.0	318.9
70°	491.3	448.2	396.5	340.4	314.6	306.0	301.7	250.0	176.7	137.9	146.5
72.5°	396.5	370.6	331.8	288.7	245.6	206.9	176.7	129.3	81.9	56.0	51.7
75°	284.4	271.5	241.3	206.9	172.4	146.5	120.7	81.9	43.1	21.5	21.5
77.5°	146.5	146.5	142.2	129.3	107.7	86.2	69.0	47.4	25.9	8.6	8.6
80°	112.0	120.7	125.0	112.0	99.1	77.6	56.0	34.5	17.2	4.3	4.3
82.5°	107.7	125.0	133.6	116.4	99.1	73.3	56.0	34.5	17.2	4.3	4.3
85°	25.9	25.9	38.8	43.1	56.0	60.3	47.4	30.2	12.9	4.3	4.3
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	4.3	4.3	4.3	4.3	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)