

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: P532596

Luminaire Tested: **GALN-SA8A-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532596
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-SA8A-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 27868 lumens
Efficiency: N/A
Efficacy: 114.2 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

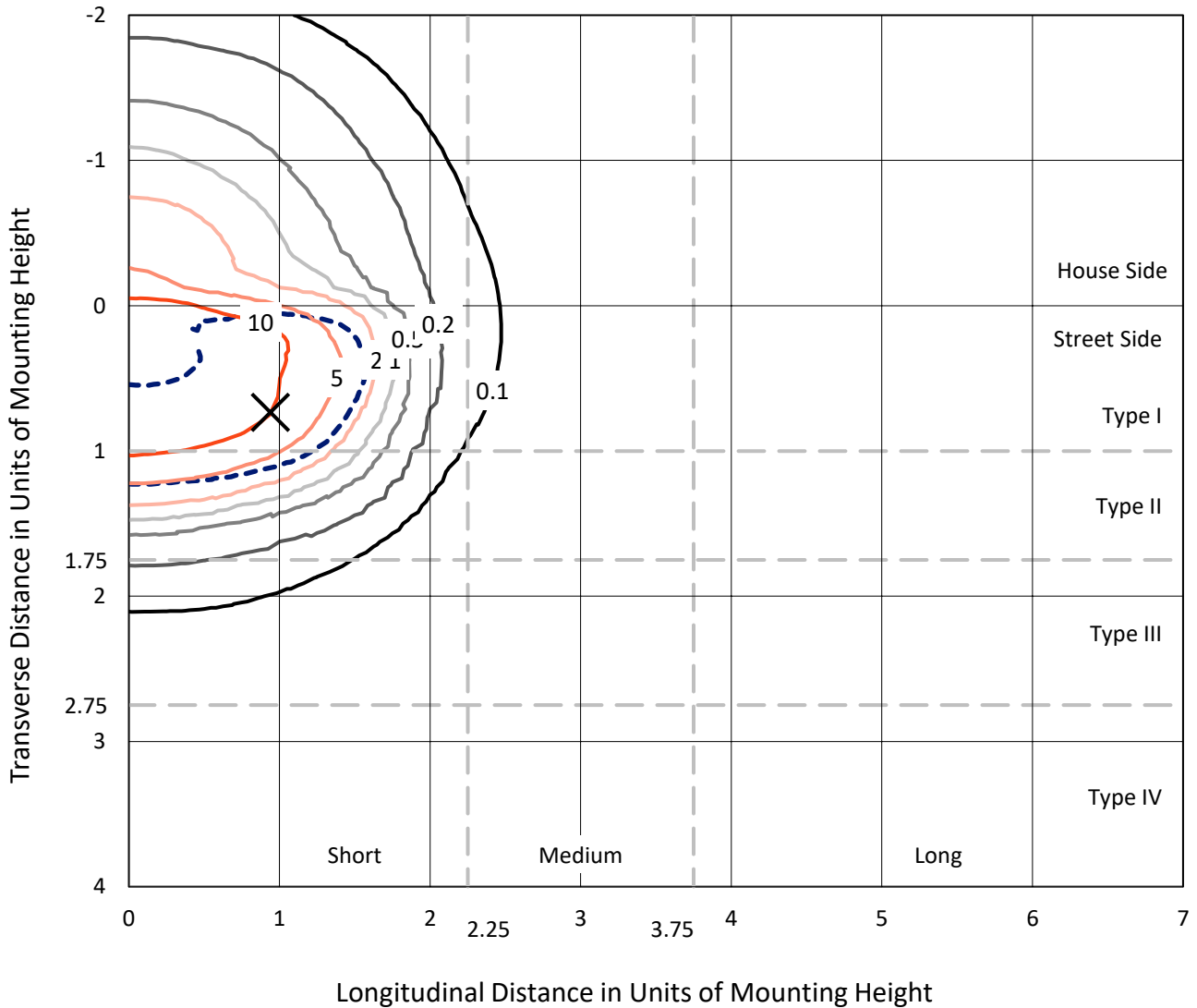
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

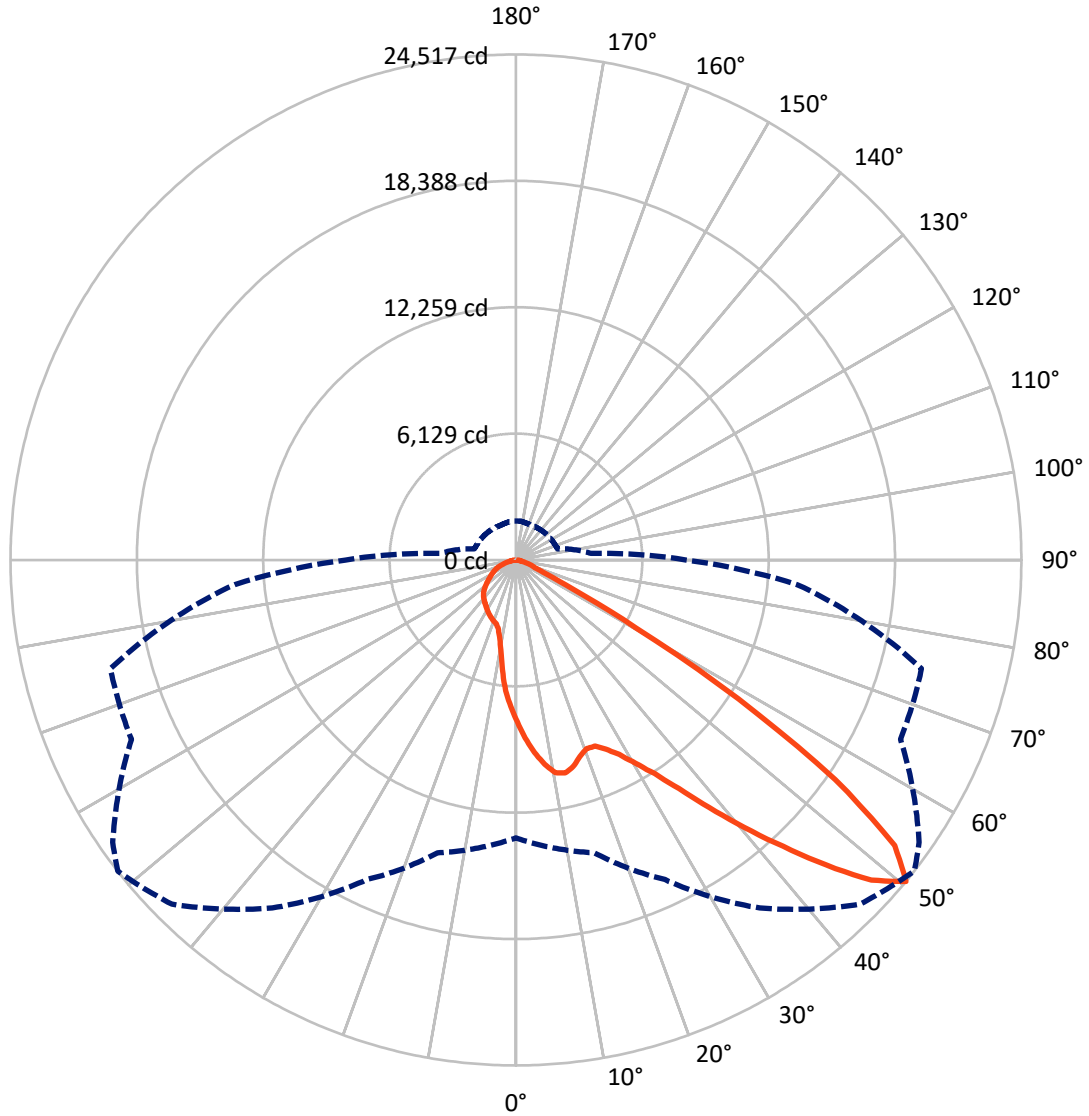
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5238.5	0.0	5238.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22629.5	0.0	22629.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	27868.0	0.0	27868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.0	2.6
10°-20°	1940.6	7.0
20°-30°	3268.9	11.7
30°-40°	5485.5	19.7
40°-50°	8391.4	30.1
50°-60°	6118.0	22.0
60°-70°	1361.6	4.9
70°-80°	491.1	1.8
80°-90°	86.9	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°	27868.0	100.0
0°-180°	27868.0	100.0

Coefficient of Utilization

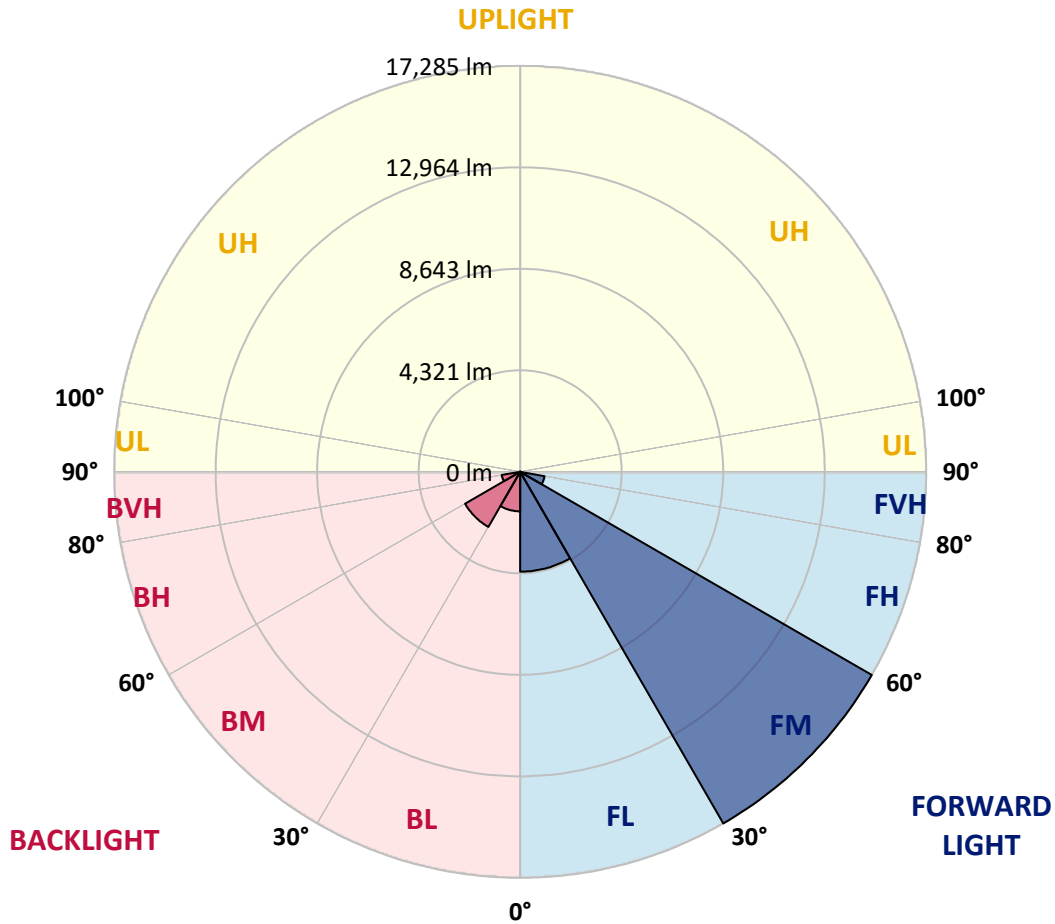


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4250.8	15.3			
FM (30°-60°)	17285.2	62.0			
FH (60°-80°)	1054.6	3.8			G1/1800
FVH (80°-90°)	39.0	0.1			G1/100
BL (0°-30°)	1682.7	6.0	B3/2500		
BM (30°-60°)	2709.7	9.7	B3/5000		
BH (60°-80°)	798.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	48.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5
2.5°	9249.3	9071.3	9091.5	8963.8	8826.1	8785.8	8644.8	8510.4	8409.7	8194.7	7996.6
5°	10109.1	10055.3	9974.7	9874.0	9769.9	9514.6	9370.2	9202.3	8832.9	8500.4	8171.2
7.5°	10233.3	10223.3	10266.9	10266.9	10303.9	10206.5	10001.6	9884.1	9491.1	8950.4	8339.2
10°	9360.1	9390.4	9601.9	9877.3	10260.2	10525.5	10491.9	10461.7	10031.8	9293.0	8537.3
12.5°	8664.9	8597.8	8722.0	8957.1	9531.4	10172.9	10606.1	10609.5	10498.7	9840.4	8681.7
15°	8272.0	8319.0	8352.6	8463.4	8896.7	9638.9	10401.3	10626.3	11113.3	10226.6	8910.1
17.5°	8523.9	8366.0	8359.3	8386.2	8607.8	9165.3	10021.8	10408.0	11449.1	10723.7	9192.2
20°	8853.0	8849.6	8755.6	8722.0	8718.7	9215.7	9773.2	10297.2	11627.1	11368.5	9477.7
22.5°	9430.7	9430.7	9276.2	9202.3	9044.4	9450.8	9806.8	10162.8	11922.7	11811.8	9615.4
25°	10397.9	10240.1	9974.7	9793.4	9702.7	9847.1	10162.8	10481.9	12181.3	12282.0	9900.9
27.5°	11291.3	11042.7	10911.8	10599.4	10478.5	10394.6	10683.4	11005.8	12483.5	13014.2	10055.3
30°	12305.5	12261.9	12026.8	11623.8	11324.9	11170.4	11435.7	11754.7	13037.7	13763.1	10411.3
32.5°	14119.1	13722.8	13403.8	12910.1	12423.1	12094.0	12355.9	12567.5	13957.9	14545.7	10800.9
35°	16077.1	15949.5	15398.7	14508.7	13763.1	13467.6	13622.1	13779.9	15029.3	15741.3	11455.8
37.5°	18001.6	17826.9	17373.5	16624.6	15717.8	15116.6	15227.4	15412.1	16231.6	17353.4	12255.2
40°	19385.3	19170.3	18941.9	18831.1	17931.0	17108.2	17044.4	17091.4	17857.1	18864.7	13141.8
42.5°	19486.0	19751.3	19821.9	20268.5	20057.0	19381.9	18988.9	18999.0	19408.8	20359.2	14038.5
45°	19274.4	19029.3	19549.8	20769.0	21467.5	21783.2	21121.6	21037.6	20369.3	21225.7	14485.2
47.5°	17054.5	17121.6	18001.6	19929.3	21947.8	23358.4	23203.9	22925.1	20883.1	21195.5	14414.7
50°	13481.0	13887.4	14703.5	17104.8	20604.4	23606.9	24517.0	23872.2	20577.5	20362.6	13696.0
52.5°	8977.3	9145.2	9682.6	12782.4	16567.5	21101.4	23005.7	23153.5	20295.4	19271.1	12785.8
55°	3996.6	3983.2	4738.8	6676.7	10394.6	16057.0	18797.5	19697.6	19210.6	18159.4	11899.2
57.5°	1692.7	1749.8	2058.8	2884.9	5111.6	9689.3	12735.4	13524.7	14774.0	14911.7	9128.4
60°	1145.2	1152.0	1235.9	1444.2	2139.4	4550.8	6680.1	7627.1	8520.5	8460.1	4843.0
62.5°	900.1	923.6	987.4	1071.4	1269.5	2065.5	2989.1	3516.3	3573.4	3005.9	1837.1
65°	769.1	772.5	836.3	906.8	994.1	1202.3	1440.8	1467.7	1484.5	1430.7	1350.1
67.5°	634.8	641.5	691.9	772.5	853.1	920.2	987.4	1021.0	1098.2	1249.4	1229.2
70°	503.8	513.9	557.5	624.7	698.6	738.9	822.8	853.1	923.6	1041.1	1088.2
72.5°	382.9	386.2	423.2	470.2	537.4	577.7	648.2	681.8	728.8	829.5	873.2
75°	275.4	285.5	312.3	335.8	345.9	372.8	440.0	476.9	544.1	587.7	591.1
77.5°	144.4	151.1	157.8	157.8	191.4	241.8	285.5	305.6	352.6	386.2	369.4
80°	57.1	60.5	77.2	104.1	134.3	174.6	204.9	214.9	255.2	275.4	285.5
82.5°	33.6	36.9	50.4	73.9	97.4	124.3	147.8	157.8	184.7	208.2	214.9
85°	16.8	20.2	30.2	47.0	63.8	77.2	73.9	70.5	70.5	67.2	70.5
87.5°	6.7	6.7	10.1	10.1	10.1	13.4	16.8	16.8	16.8	20.2	20.2
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°	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5
2.5°	7865.6	7731.3	7607.0	7378.6	7130.1	7059.6	6770.7	6666.6	6592.7	6505.4	6478.5
5°	7905.9	7727.9	7328.2	6868.1	6502.1	6031.9	5722.9	5390.4	5148.6	5088.1	5071.3
7.5°	7989.9	7684.2	6995.8	6300.5	5551.6	4913.5	4426.5	4164.5	3932.8	3919.4	3895.9
10°	8083.9	7553.3	6633.0	5541.5	4584.3	3993.3	3701.1	3586.9	3529.8	3516.3	3509.6
12.5°	8161.2	7526.4	6226.7	4802.7	3899.2	3543.2	3455.9	3445.8	3469.3	3476.0	3489.5
15°	8194.7	7418.9	5736.3	4141.0	3472.7	3341.7	3378.6	3419.0	3435.7	3479.4	3445.8
17.5°	8258.5	7281.2	5131.8	3617.1	3234.2	3257.7	3321.6	3368.6	3395.4	3425.7	3382.0
20°	8292.1	7157.0	4564.2	3304.8	3150.3	3193.9	3281.3	3318.2	3351.8	3365.2	3314.8
22.5°	8261.9	6901.7	4063.8	3052.9	3069.7	3126.8	3204.0	3244.3	3224.2	3170.4	3140.2
25°	8181.3	6542.4	3543.2	2891.7	2955.5	3056.2	3116.7	3086.5	3049.5	3019.3	3009.2
27.5°	8177.9	6102.4	3167.1	2743.9	2858.1	2995.8	2975.6	2948.8	2965.6	2942.0	2915.2
30°	8194.7	5675.9	2858.1	2659.9	2787.6	2854.7	2878.2	2851.4	2871.5	2827.9	2841.3
32.5°	8107.4	5259.4	2656.6	2562.5	2703.6	2700.2	2777.5	2797.6	2750.6	2659.9	2673.4
35°	8144.4	4923.6	2485.3	2518.9	2609.6	2609.6	2670.0	2646.5	2522.2	2468.5	2481.9
37.5°	8399.6	4594.4	2401.3	2458.4	2518.9	2545.7	2525.6	2424.8	2394.6	2394.6	2401.3
40°	8641.4	4312.3	2350.9	2445.0	2434.9	2451.7	2303.9	2314.0	2314.0	2317.4	2300.6
42.5°	8856.4	4120.9	2310.6	2364.4	2381.2	2293.9	2203.2	2193.1	2216.6	2213.3	2199.8
45°	8933.6	3963.0	2253.6	2273.7	2287.1	2142.7	2099.1	2078.9	2105.8	2115.9	2129.3
47.5°	8638.1	3832.0	2189.7	2149.4	2122.6	2028.5	1971.4	1934.5	1968.1	2025.2	2038.6
50°	8258.5	3660.8	2089.0	2011.7	1954.6	1914.3	1874.0	1837.1	1860.6	1900.9	1890.8
52.5°	7697.7	3392.1	1961.4	1880.8	1783.4	1793.4	1756.5	1736.3	1749.8	1749.8	1739.7
55°	6898.4	2787.6	1746.4	1689.3	1608.7	1635.6	1642.3	1615.4	1588.6	1612.1	1591.9
57.5°	4708.6	1968.1	1558.3	1558.3	1477.7	1514.7	1511.3	1447.5	1383.7	1390.4	1377.0
60°	2723.7	1568.4	1437.4	1424.0	1340.0	1370.3	1377.0	1333.3	1235.9	1242.6	1229.2
62.5°	1548.3	1340.0	1256.1	1235.9	1219.1	1246.0	1246.0	1188.9	1104.9	1111.7	1098.2
65°	1316.5	1242.6	1121.7	1118.4	1111.7	1118.4	1091.5	1031.1	957.2	926.9	930.3
67.5°	1195.6	1148.6	1031.1	1000.8	980.7	977.3	926.9	869.9	836.3	809.4	806.0
70°	1047.9	1010.9	923.6	883.3	863.1	816.1	765.7	728.8	681.8	668.3	681.8
72.5°	829.5	826.2	792.6	748.9	705.3	668.3	624.7	574.3	530.6	520.6	497.1
75°	574.3	581.0	587.7	581.0	544.1	497.1	446.7	406.4	352.6	322.4	315.7
77.5°	376.2	386.2	396.3	382.9	359.4	315.7	282.1	231.7	191.4	167.9	164.6
80°	275.4	288.8	295.5	285.5	258.6	225.0	188.1	147.8	117.5	97.4	97.4
82.5°	211.6	225.0	231.7	214.9	188.1	161.2	134.3	104.1	80.6	63.8	60.5
85°	73.9	70.5	84.0	87.3	104.1	97.4	80.6	60.5	47.0	33.6	30.2
87.5°	20.2	20.2	23.5	23.5	20.2	16.8	16.8	16.8	13.4	10.1	10.1
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)