

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: P531900

Luminaire Tested: **GALN-SA7B-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28041 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

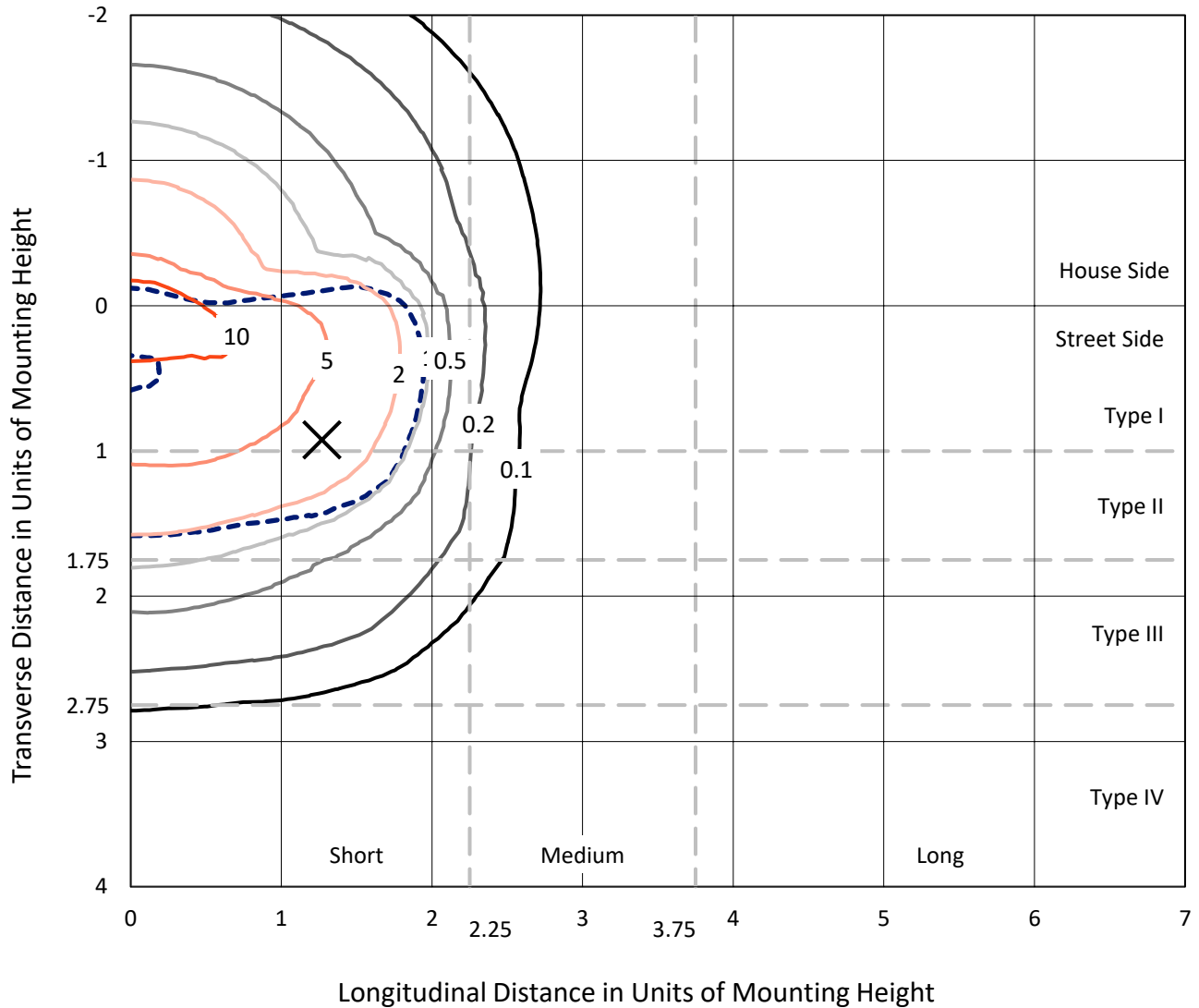
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

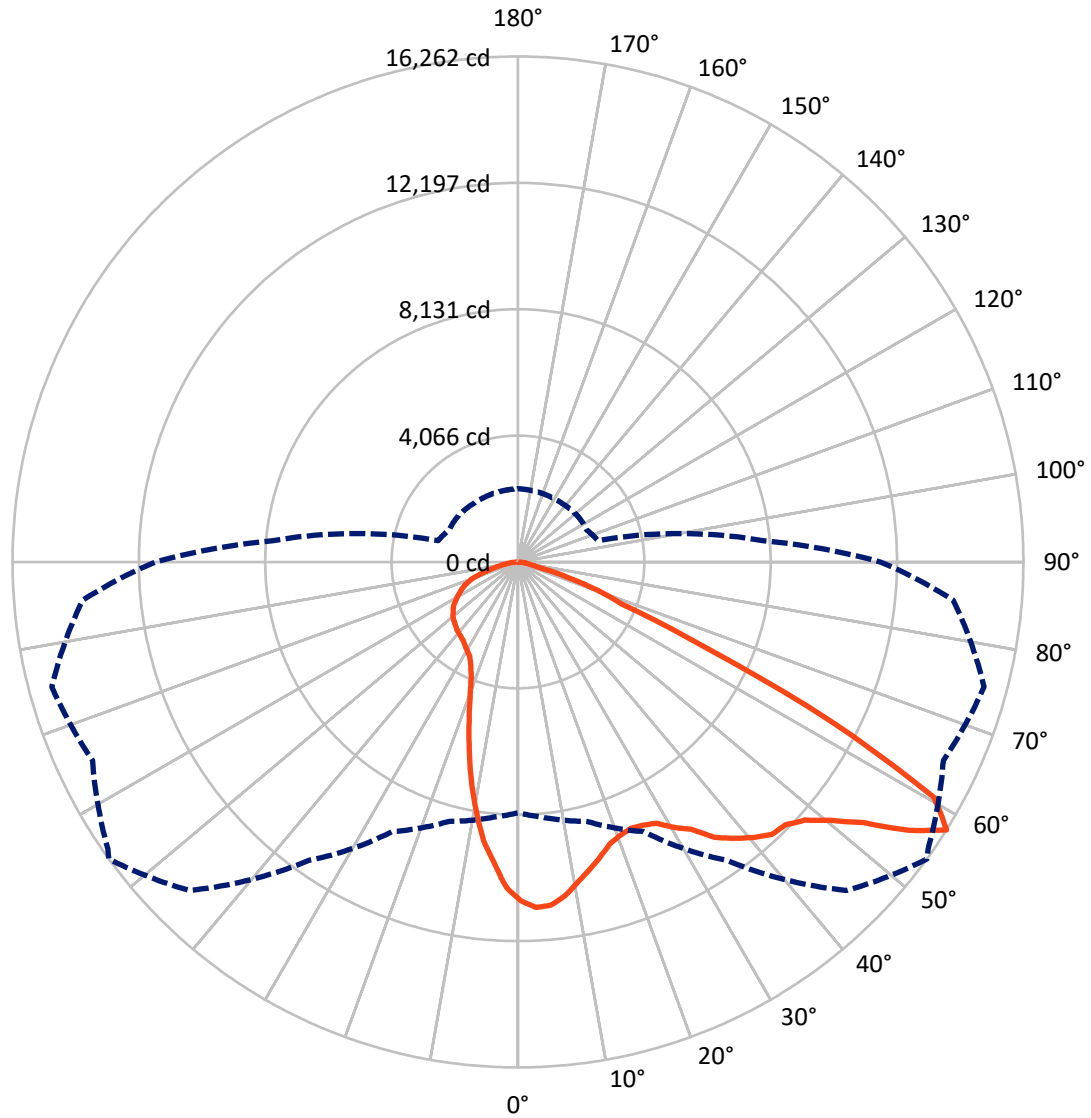
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7757.7	0.0	7757.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	20283.3	0.0	20283.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	28041.0	0.0	28041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.0	3.4
10°-20°	2176.3	7.8
20°-30°	3057.8	10.9
30°-40°	4274.8	15.2
40°-50°	5787.3	20.6
50°-60°	7049.1	25.1
60°-70°	3671.5	13.1
70°-80°	940.8	3.4
80°-90°	143.5	0.5
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°	28041.0	100.0
0°-180°	28041.0	100.0

Coefficient of Utilization



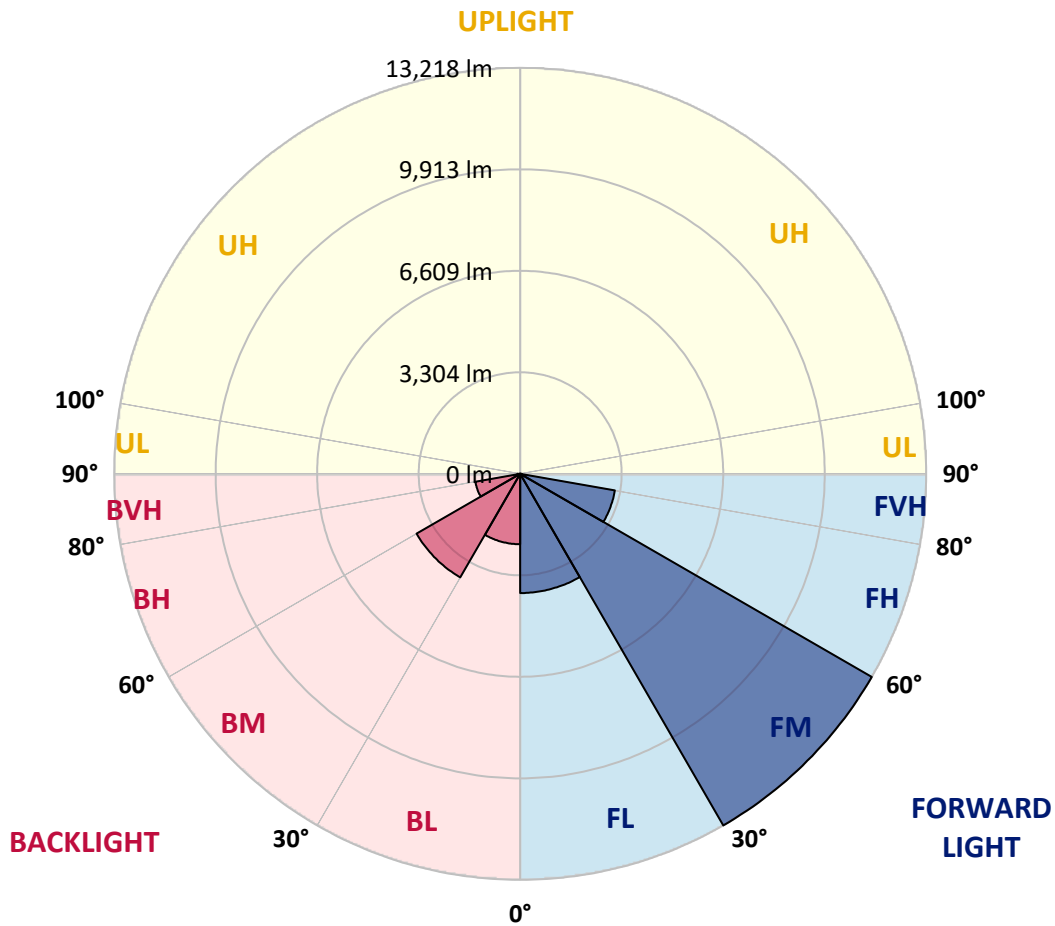
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3881.3	13.8			
FM (30°-60°)	13217.7	47.1			
FH (60°-80°)	3130.2	11.2			G2/5000
FVH (80°-90°)	54.2	0.2			G1/100
BL (0°-30°)	2292.8	8.2	B3/2500		
BM (30°-60°)	3893.5	13.9	B3/5000		
BH (60°-80°)	1482.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	89.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2
2.5°	11209.2	11165.9	11173.1	11230.8	11158.7	11129.9	11129.9	10989.3	11000.1	10902.8	10877.6
5°	10949.7	10848.8	10917.2	11003.7	11018.2	11047.0	11093.8	11057.8	10956.9	10852.4	10683.0
7.5°	10272.1	10362.2	10387.4	10448.7	10578.4	10697.4	10845.2	10744.2	10740.6	10636.1	10535.2
10°	9677.4	9623.3	9760.3	9850.4	10066.6	10264.9	10491.9	10481.1	10535.2	10416.2	10243.2
12.5°	9086.3	9043.0	9107.9	9313.4	9616.1	9904.4	10174.8	10073.8	10362.2	10340.6	9969.3
15°	8459.1	8491.6	8585.3	8776.3	9172.8	9518.8	9861.2	9864.8	10120.7	10207.2	9709.8
17.5°	8019.4	7983.4	8102.3	8387.1	8740.3	9154.8	9544.0	9623.3	10016.2	10066.6	9630.5
20°	7691.4	7741.9	7896.9	8041.1	8448.3	8949.3	9389.0	9417.9	9994.6	10131.5	9504.4
22.5°	7612.2	7583.3	7633.8	7868.1	8203.2	8747.5	9306.1	9414.3	9990.9	10109.9	9266.5
25°	7529.3	7623.0	7619.4	7853.6	8098.7	8585.3	9374.6	9493.6	10182.0	10221.6	9298.9
27.5°	7716.7	7705.9	7806.8	7824.8	8127.6	8628.5	9518.8	9608.9	10499.1	10466.7	9324.2
30°	7904.1	7850.0	7911.3	8124.0	8264.5	8877.2	9915.3	9908.1	10910.0	10888.4	9403.5
32.5°	8134.8	8109.5	8149.2	8336.6	8574.5	9208.8	10250.5	10463.1	11328.1	11465.1	9677.4
35°	8178.0	8282.5	8376.2	8628.5	8967.3	9745.9	10881.2	11057.8	11811.1	12240.0	10200.0
37.5°	8451.9	8491.6	8711.4	9158.4	9468.3	10463.1	11281.3	11393.0	12250.8	12737.4	10751.4
40°	8743.9	8790.7	9122.3	9590.9	10016.2	10931.7	11656.1	11692.1	12391.4	13119.4	11111.9
42.5°	9140.3	9183.6	9511.6	10099.1	10668.5	11331.7	11987.7	12027.3	12380.6	13559.1	11684.9
45°	9551.2	9655.8	10041.4	10708.2	11220.0	11800.3	12063.4	12225.6	12481.5	13952.0	12149.9
47.5°	10127.9	10225.2	10542.4	11194.8	11793.1	12211.2	12413.0	12571.6	12723.0	14294.4	12449.0
50°	10740.6	10758.7	11144.3	11735.4	12175.1	12676.1	13065.4	13119.4	13040.1	14690.9	12957.2
52.5°	11191.2	11248.8	11548.0	12124.7	12780.6	13397.0	13930.4	13988.0	13833.1	14838.6	13130.2
55°	10445.1	10412.6	10899.2	11666.9	13187.9	14471.0	15245.9	15289.2	14409.7	15296.4	13696.1
57.5°	8073.5	8228.5	8643.0	9569.3	11717.4	14946.8	16262.3	16107.3	15101.8	15527.1	14056.5
60°	5867.7	5831.7	6109.2	6729.1	8830.4	12881.5	15375.7	15534.3	14535.9	13995.3	11591.2
62.5°	4779.2	4728.8	4750.4	4772.0	5698.3	8549.3	11382.2	11378.6	11194.8	10059.4	7817.6
65°	3820.5	3939.4	3950.2	4112.4	4231.4	5107.2	6595.8	6949.0	6051.5	4963.0	3600.6
67.5°	2879.8	2836.5	2980.7	3557.4	3780.8	3687.1	3600.6	3640.3	2587.8	1867.0	1758.9
70°	1697.6	1679.6	1852.6	2479.7	3114.1	2930.2	2714.0	2717.6	1776.9	1304.7	1452.5
72.5°	929.9	926.3	962.3	1257.9	1769.7	1838.2	1629.1	1679.6	1059.6	1056.0	1135.3
75°	519.0	508.2	497.4	555.1	638.0	674.0	688.4	695.6	728.1	814.6	847.0
77.5°	191.0	183.8	183.8	212.7	270.3	338.8	428.9	436.1	515.4	591.1	623.5
80°	64.9	72.1	97.3	133.4	180.2	241.5	291.9	299.2	364.0	414.5	425.3
82.5°	39.6	43.3	64.9	93.7	129.8	169.4	216.3	219.9	270.3	302.8	317.2
85°	18.0	21.6	36.0	57.7	82.9	111.7	115.3	115.3	111.7	115.3	108.1
87.5°	0.0	0.0	7.2	7.2	7.2	10.8	14.4	10.8	18.0	21.6	21.6
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°	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2	10899.2
2.5°	10801.9	10762.3	10639.7	10531.6	10499.1	10355.0	10142.3	10167.6	10012.6	10084.7	10009.0
5°	10654.1	10520.8	10207.2	10073.8	9724.2	9565.6	9457.5	9187.2	9061.1	9035.8	8927.7
7.5°	10275.7	10192.8	9799.9	9439.5	9068.3	8751.1	8343.8	8066.3	7868.1	7814.0	7655.4
10°	9976.5	9792.7	9248.5	8700.6	8170.8	7619.4	7089.5	6675.0	6473.2	6238.9	6159.6
12.5°	9681.0	9403.5	8668.2	7965.4	7280.6	6584.9	5943.4	5438.8	4999.1	4894.6	4858.5
15°	9497.2	9014.2	8149.2	7302.2	6329.0	5420.8	4779.2	4447.6	4177.3	4065.6	4144.9
17.5°	9255.7	8693.4	7651.8	6523.7	5453.2	4617.0	4080.0	3874.6	3777.2	3788.1	3755.6
20°	8952.9	8390.7	6999.4	5817.2	4671.1	4004.3	3697.9	3622.3	3636.7	3661.9	3651.1
22.5°	8736.7	8023.0	6527.3	5096.4	4036.7	3665.5	3539.4	3485.3	3532.2	3553.8	3535.8
25°	8570.9	7709.5	5954.2	4458.4	3669.1	3474.5	3416.8	3413.2	3485.3	3514.1	3496.1
27.5°	8419.5	7417.5	5384.7	3971.9	3424.0	3326.7	3308.7	3351.9	3398.8	3427.6	3452.9
30°	8329.4	7194.1	4851.3	3564.6	3301.5	3254.6	3222.2	3261.8	3287.1	3315.9	3301.5
32.5°	8415.9	7035.5	4335.9	3333.9	3200.6	3153.7	3197.0	3171.7	3215.0	3240.2	3200.6
35°	8686.2	6894.9	3968.3	3211.4	3085.2	3103.2	3110.5	3099.6	3117.7	3096.0	3142.9
37.5°	8952.9	6844.4	3629.5	3106.9	3031.2	3031.2	3024.0	3002.3	3038.4	3031.2	3052.8
40°	9291.7	6876.9	3341.1	2995.1	2980.7	2973.5	2944.7	2941.1	2926.6	2930.2	2937.5
42.5°	9587.3	6949.0	3175.3	2923.0	2933.8	2948.3	2894.2	2851.0	2869.0	2832.9	2832.9
45°	9900.8	7013.8	3027.6	2872.6	2861.8	2858.2	2814.9	2789.7	2775.3	2778.9	2811.3
47.5°	10394.6	7107.6	2915.8	2804.1	2811.3	2757.2	2746.4	2714.0	2728.4	2750.0	2753.6
50°	10744.2	7305.8	2829.3	2724.8	2750.0	2714.0	2649.1	2634.7	2634.7	2670.7	2663.5
52.5°	10989.3	7583.3	2746.4	2638.3	2649.1	2620.3	2598.7	2566.2	2544.6	2595.1	2620.3
55°	11739.0	8044.7	2724.8	2566.2	2562.6	2533.8	2494.1	2461.7	2450.9	2458.1	2508.5
57.5°	11666.9	7900.5	2656.3	2440.1	2432.9	2393.2	2353.6	2342.8	2339.2	2346.4	2360.8
60°	9471.9	5835.3	2371.6	2295.9	2285.1	2277.9	2238.2	2195.0	2173.4	2195.0	2177.0
62.5°	6267.8	3907.0	2090.5	2122.9	2130.1	2112.1	2047.2	2004.0	2011.2	2036.4	1996.7
65°	3078.0	2295.9	1895.8	1982.3	1989.5	1939.1	1877.8	1827.3	1802.1	1823.7	1805.7
67.5°	1758.9	1755.3	1737.2	1827.3	1823.7	1773.3	1676.0	1632.7	1589.5	1596.7	1585.9
70°	1492.2	1521.0	1557.0	1611.1	1607.5	1549.8	1434.5	1402.0	1340.8	1333.6	1315.5
72.5°	1175.0	1225.4	1304.7	1344.4	1311.9	1239.9	1164.2	1110.1	1056.0	1023.6	1034.4
75°	872.2	944.3	987.6	1012.8	962.3	922.7	861.4	796.5	731.7	702.8	692.0
77.5°	634.3	656.0	695.6	713.6	681.2	641.6	605.5	540.6	479.4	439.7	428.9
80°	443.3	457.7	486.6	486.6	486.6	468.6	421.7	356.8	317.2	281.1	273.9
82.5°	310.0	324.4	353.2	338.8	335.2	313.6	284.7	234.3	191.0	165.8	158.6
85°	108.1	118.9	144.2	173.0	183.8	180.2	162.2	129.8	100.9	82.9	75.7
87.5°	25.2	25.2	28.8	25.2	25.2	28.8	25.2	25.2	25.2	18.0	14.4
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)