

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: P532986

Luminaire Tested: **GALN-SA8B-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532986
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-SA8B-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 30479 lumens
Efficiency: N/A
Efficacy: 93.8 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

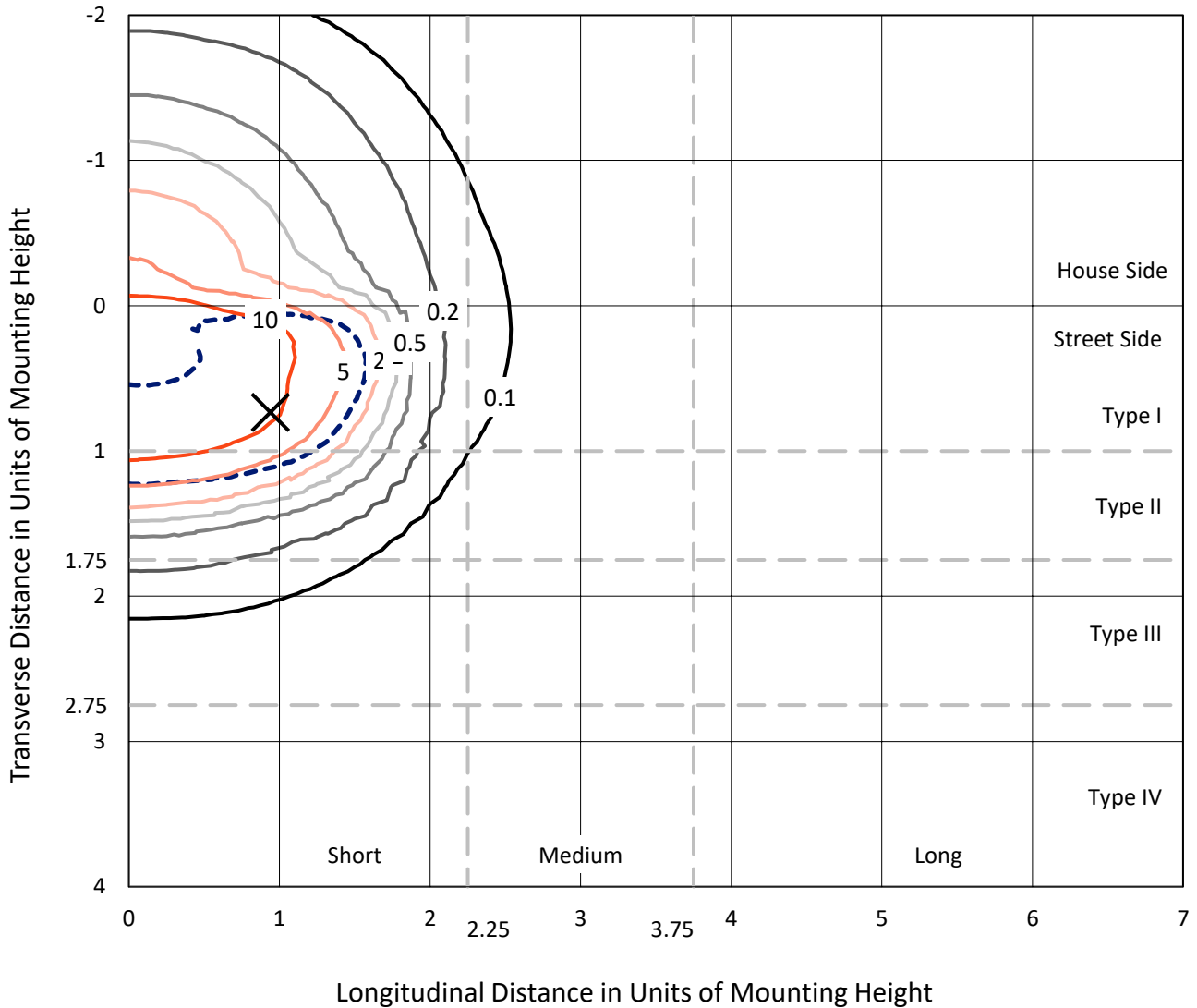
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

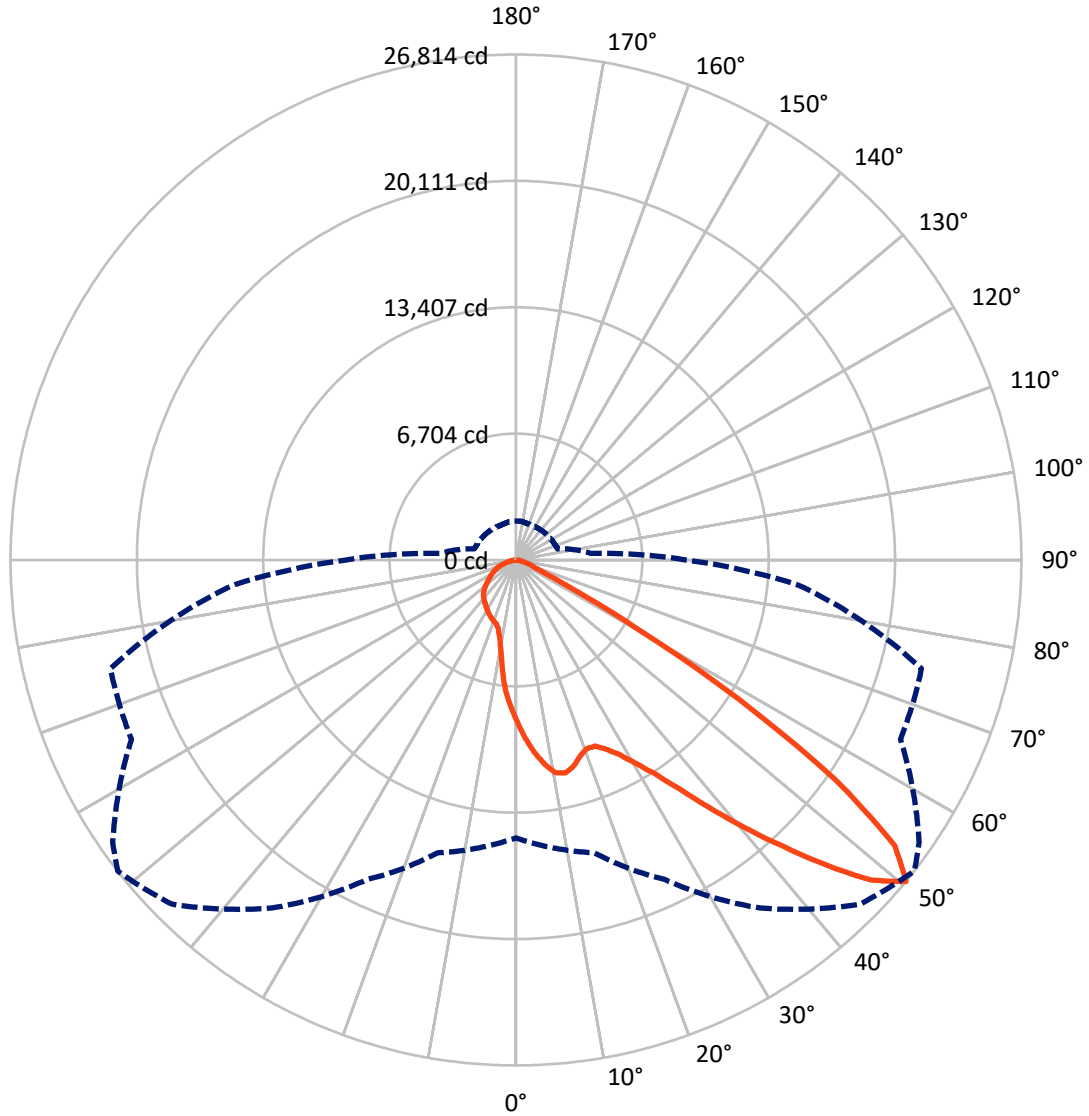
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	5729.3	0.0	5729.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24749.7	0.0	24749.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	30479.0	0.0	30479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.9	2.6
10°-20°	2122.4	7.0
20°-30°	3575.2	11.7
30°-40°	5999.4	19.7
40°-50°	9177.6	30.1
50°-60°	6691.2	22.0
60°-70°	1489.1	4.9
70°-80°	537.1	1.8
80°-90°	95.1	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°	30479.0	100.0
0°-180°	30479.0	100.0

Coefficient of Utilization



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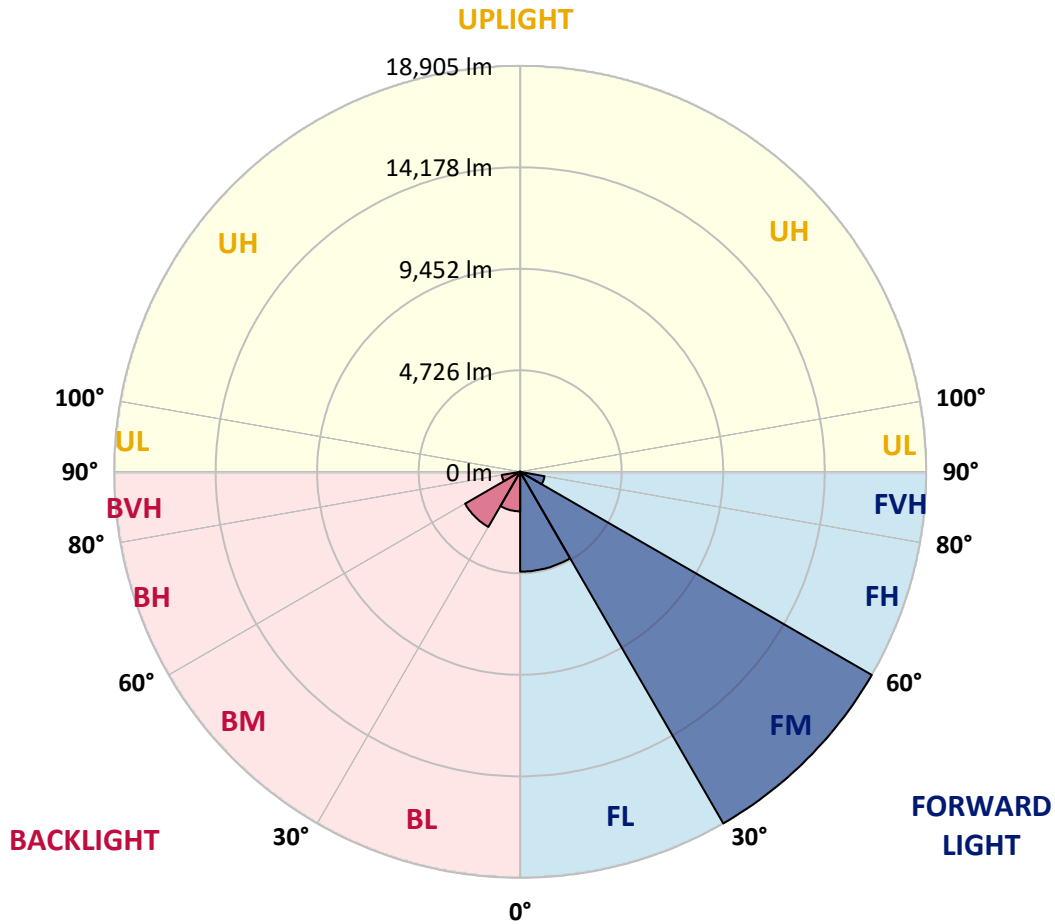
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4649.1	15.3			
FM (30°-60°)	18904.6	62.0			
FH (60°-80°)	1153.4	3.8			G1/1800
FVH (80°-90°)	42.6	0.1			G1/100
BL (0°-30°)	1840.4	6.0	B3/2500		
BM (30°-60°)	2963.6	9.7	B3/5000		
BH (60°-80°)	872.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	52.5	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°	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5
2.5°	10115.9	9921.2	9943.2	9803.7	9653.1	9609.0	9454.7	9307.8	9197.6	8962.5	8745.8
5°	11056.2	10997.4	10909.3	10799.1	10685.2	10406.1	10248.1	10064.5	9660.4	9296.8	8936.8
7.5°	11192.1	11181.1	11228.9	11228.9	11269.3	11162.7	10938.7	10810.1	10380.4	9789.0	9120.5
10°	10237.1	10270.2	10501.6	10802.8	11221.5	11511.7	11475.0	11441.9	10971.7	10163.6	9337.2
12.5°	9476.8	9403.3	9539.2	9796.3	10424.4	11126.0	11599.8	11603.5	11482.3	10762.4	9495.1
15°	9047.0	9098.4	9135.2	9256.4	9730.2	10542.0	11375.8	11621.9	12154.5	11184.8	9744.9
17.5°	9322.5	9149.8	9142.5	9171.9	9414.3	10024.1	10960.7	11383.1	12521.8	11728.4	10053.4
20°	9682.5	9678.8	9575.9	9539.2	9535.5	10079.2	10688.9	11261.9	12716.5	12433.7	10365.7
22.5°	10314.2	10314.2	10145.3	10064.5	9891.8	10336.3	10725.6	11115.0	13039.7	12918.5	10516.3
25°	11372.1	11199.5	10909.3	10710.9	10611.8	10769.7	11115.0	11463.9	13322.6	13432.8	10828.5
27.5°	12349.2	12077.4	11934.1	11592.5	11460.3	11368.4	11684.3	12037.0	13653.1	14233.5	10997.4
30°	13458.5	13410.7	13153.6	12712.8	12385.9	12216.9	12507.1	12856.1	14259.2	15052.6	11386.8
32.5°	15442.0	15008.5	14659.6	14119.6	13587.0	13227.1	13513.6	13745.0	15265.7	15908.5	11812.9
35°	17583.4	17443.8	16841.4	15868.1	15052.6	14729.4	14898.3	15071.0	16437.4	17216.1	12529.2
37.5°	19688.1	19497.1	19001.3	18182.1	17190.4	16532.9	16654.1	16856.1	17752.4	18979.2	13403.4
40°	21201.5	20966.4	20716.6	20595.4	19611.0	18711.1	18641.3	18692.7	19530.2	20632.1	14373.1
42.5°	21311.7	21601.9	21679.0	22167.5	21936.1	21197.8	20768.1	20779.1	21227.2	22266.7	15353.8
45°	21080.3	20812.1	21381.5	22714.8	23478.8	23824.1	23100.5	23008.7	22277.7	23214.4	15842.3
47.5°	18652.3	18725.8	19688.1	21796.5	24004.1	25546.8	25377.9	25073.0	22839.7	23181.3	15765.2
50°	14744.1	15188.5	16081.1	18707.4	22534.8	25818.7	26814.1	26108.8	22505.5	22270.4	14979.2
52.5°	9818.4	10002.0	10589.7	13980.1	18119.7	23078.5	25161.2	25322.8	22196.9	21076.6	13983.7
55°	4371.1	4356.4	5182.8	7302.2	11368.4	17561.4	20558.7	21543.1	21010.5	19860.8	13014.0
57.5°	1851.3	1913.7	2251.6	3155.2	5590.6	10597.1	13928.6	14791.8	16158.2	16308.8	9983.7
60°	1252.5	1259.9	1351.7	1579.5	2339.8	4977.1	7305.9	8341.7	9318.8	9252.7	5296.7
62.5°	984.4	1010.1	1079.9	1171.7	1388.5	2259.0	3269.1	3845.8	3908.2	3287.5	2009.2
65°	841.2	844.8	914.6	991.8	1087.3	1315.0	1575.8	1605.2	1623.5	1564.8	1476.6
67.5°	694.2	701.6	756.7	844.8	933.0	1006.4	1079.9	1116.6	1201.1	1366.4	1344.4
70°	551.0	562.0	609.7	683.2	764.0	808.1	899.9	933.0	1010.1	1138.7	1190.1
72.5°	418.7	422.4	462.8	514.2	587.7	631.8	708.9	745.7	797.1	907.3	955.0
75°	301.2	312.2	341.6	367.3	378.3	407.7	481.2	521.6	595.1	642.8	646.5
77.5°	157.9	165.3	172.6	172.6	209.4	264.5	312.2	334.3	385.7	422.4	404.0
80°	62.4	66.1	84.5	113.9	146.9	191.0	224.1	235.1	279.2	301.2	312.2
82.5°	36.7	40.4	55.1	80.8	106.5	135.9	161.6	172.6	202.0	227.7	235.1
85°	18.4	22.0	33.1	51.4	69.8	84.5	80.8	77.1	77.1	73.5	77.1
87.5°	7.3	7.3	11.0	11.0	11.0	14.7	18.4	18.4	18.4	22.0	22.0
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°	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5	8591.5
2.5°	8602.5	8455.6	8319.7	8069.9	7798.1	7721.0	7405.1	7291.2	7210.4	7114.9	7085.5
5°	8646.6	8451.9	8014.8	7511.6	7111.2	6597.0	6259.1	5895.4	5631.0	5564.8	5546.5
7.5°	8738.5	8404.2	7651.2	6890.9	6071.7	5373.8	4841.2	4554.7	4301.3	4286.6	4260.9
10°	8841.3	8260.9	7254.5	6060.7	5013.9	4367.4	4047.8	3922.9	3860.5	3845.8	3838.5
12.5°	8925.8	8231.6	6810.0	5252.6	4264.5	3875.2	3779.7	3768.7	3794.4	3801.7	3816.4
15°	8962.5	8114.0	6273.8	4529.0	3798.0	3654.8	3695.2	3739.3	3757.6	3805.4	3768.7
17.5°	9032.3	7963.4	5612.6	3956.0	3537.3	3563.0	3632.8	3684.2	3713.6	3746.6	3698.9
20°	9069.0	7827.5	4991.8	3614.4	3445.4	3493.2	3588.7	3629.1	3665.8	3680.5	3625.4
22.5°	9036.0	7548.3	4444.5	3338.9	3357.3	3419.7	3504.2	3548.3	3526.2	3467.5	3434.4
25°	8947.8	7155.3	3875.2	3162.6	3232.4	3342.6	3408.7	3375.6	3335.2	3302.2	3291.2
27.5°	8944.1	6674.1	3463.8	3001.0	3125.9	3276.5	3254.4	3225.0	3243.4	3217.7	3188.3
30°	8962.5	6207.6	3125.9	2909.1	3048.7	3122.2	3147.9	3118.5	3140.6	3092.8	3107.5
32.5°	8867.0	5752.2	2905.5	2802.6	2956.9	2953.2	3037.7	3059.7	3008.3	2909.1	2923.8
35°	8907.4	5384.9	2718.1	2754.9	2854.0	2854.0	2920.2	2894.5	2758.5	2699.8	2714.5
37.5°	9186.6	5024.9	2626.3	2688.8	2754.9	2784.3	2762.2	2652.0	2619.0	2619.0	2626.3
40°	9451.0	4716.3	2571.2	2674.1	2663.0	2681.4	2519.8	2530.8	2530.8	2534.5	2516.1
42.5°	9686.1	4507.0	2527.1	2585.9	2604.3	2508.8	2409.6	2398.6	2424.3	2420.6	2405.9
45°	9770.6	4334.3	2464.7	2486.7	2501.4	2343.5	2295.7	2273.7	2303.1	2314.1	2328.8
47.5°	9447.4	4191.1	2394.9	2350.8	2321.4	2218.6	2156.1	2115.7	2152.5	2214.9	2229.6
50°	9032.3	4003.7	2284.7	2200.2	2137.8	2093.7	2049.6	2009.2	2034.9	2079.0	2068.0
52.5°	8418.9	3709.9	2145.1	2057.0	1950.4	1961.5	1921.1	1899.0	1913.7	1913.7	1902.7
55°	7544.7	3048.7	1910.0	1847.6	1759.4	1788.8	1796.2	1766.8	1737.4	1763.1	1741.1
57.5°	5149.8	2152.5	1704.3	1704.3	1616.2	1656.6	1652.9	1583.1	1513.3	1520.7	1506.0
60°	2978.9	1715.4	1572.1	1557.4	1465.6	1498.6	1506.0	1458.2	1351.7	1359.1	1344.4
62.5°	1693.3	1465.6	1373.8	1351.7	1333.4	1362.7	1362.7	1300.3	1208.5	1215.8	1201.1
65°	1439.9	1359.1	1226.8	1223.2	1215.8	1223.2	1193.8	1127.7	1046.9	1013.8	1017.5
67.5°	1307.6	1256.2	1127.7	1094.6	1072.6	1068.9	1013.8	951.3	914.6	885.2	881.6
70°	1146.0	1105.6	1010.1	966.0	944.0	892.6	837.5	797.1	745.7	731.0	745.7
72.5°	907.3	903.6	866.9	819.1	771.4	731.0	683.2	628.1	580.4	569.3	543.6
75°	628.1	635.5	642.8	635.5	595.1	543.6	488.5	444.5	385.7	352.6	345.3
77.5°	411.4	422.4	433.4	418.7	393.0	345.3	308.5	253.4	209.4	183.7	180.0
80°	301.2	315.9	323.2	312.2	282.8	246.1	205.7	161.6	128.6	106.5	106.5
82.5°	231.4	246.1	253.4	235.1	205.7	176.3	146.9	113.9	88.2	69.8	66.1
85°	80.8	77.1	91.8	95.5	113.9	106.5	88.2	66.1	51.4	36.7	33.1
87.5°	22.0	22.0	25.7	25.7	22.0	18.4	18.4	18.4	14.7	11.0	11.0
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)