

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: P531425

Luminaire Tested: **GALN-SA6D-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28619 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

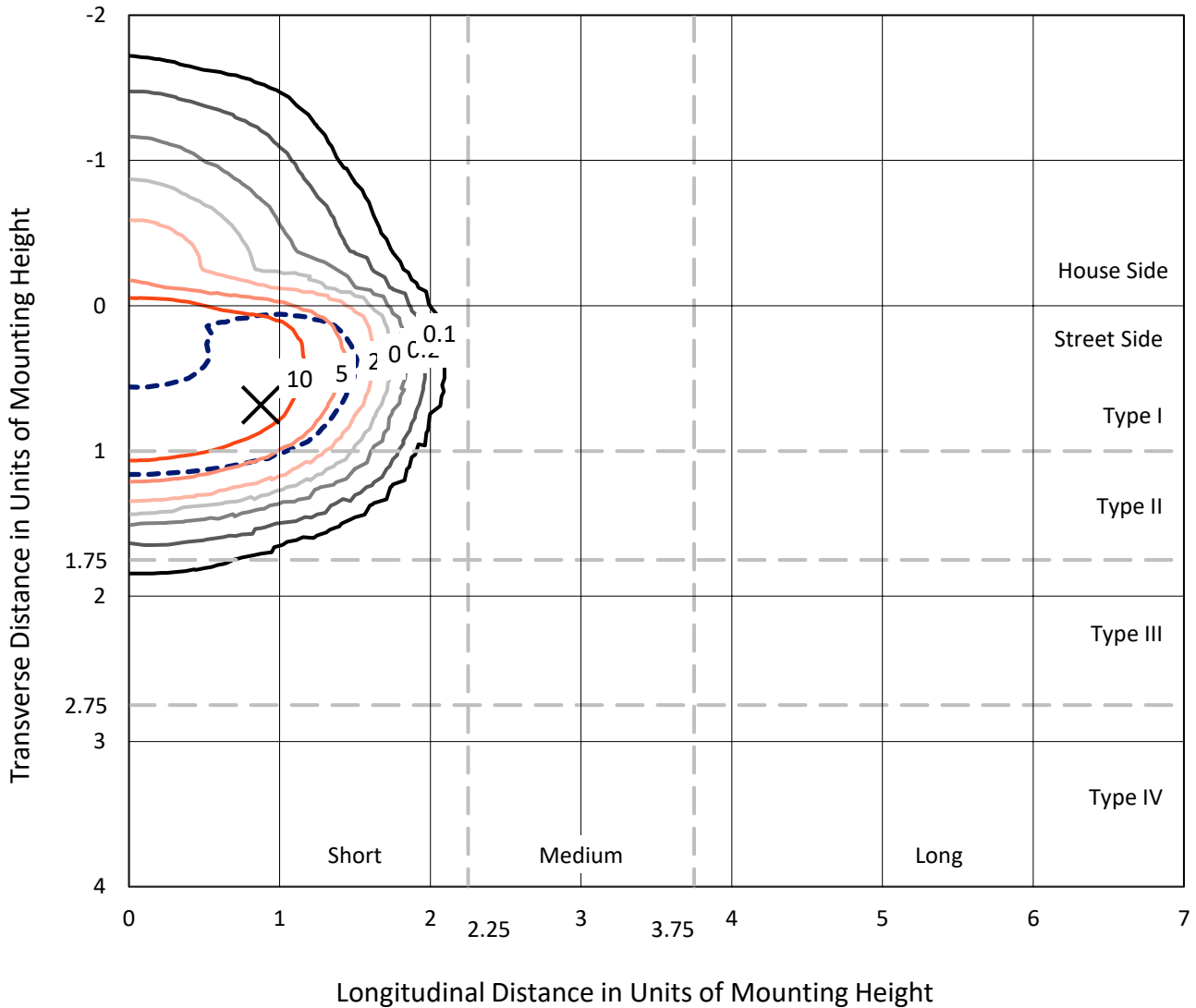
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

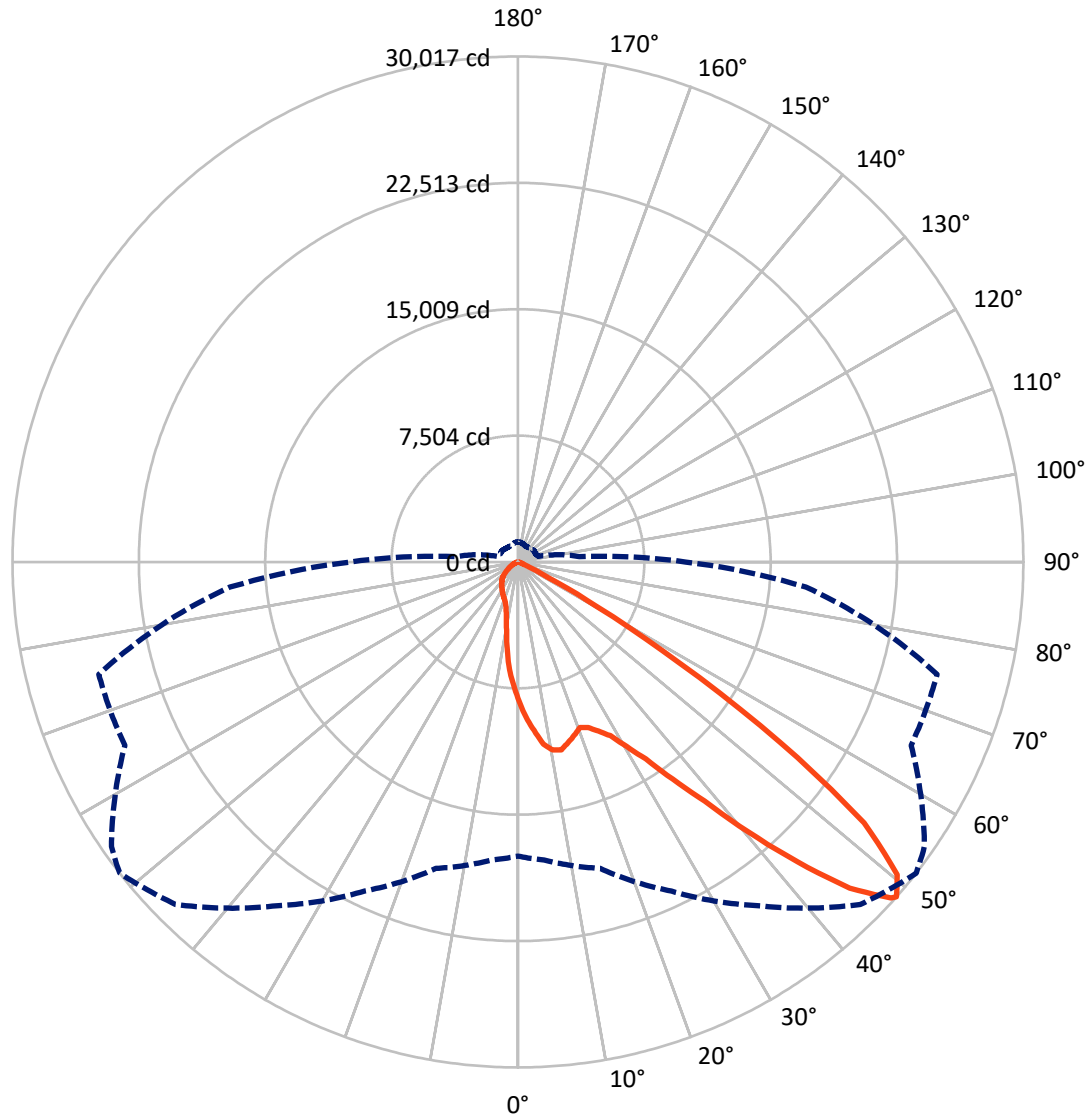
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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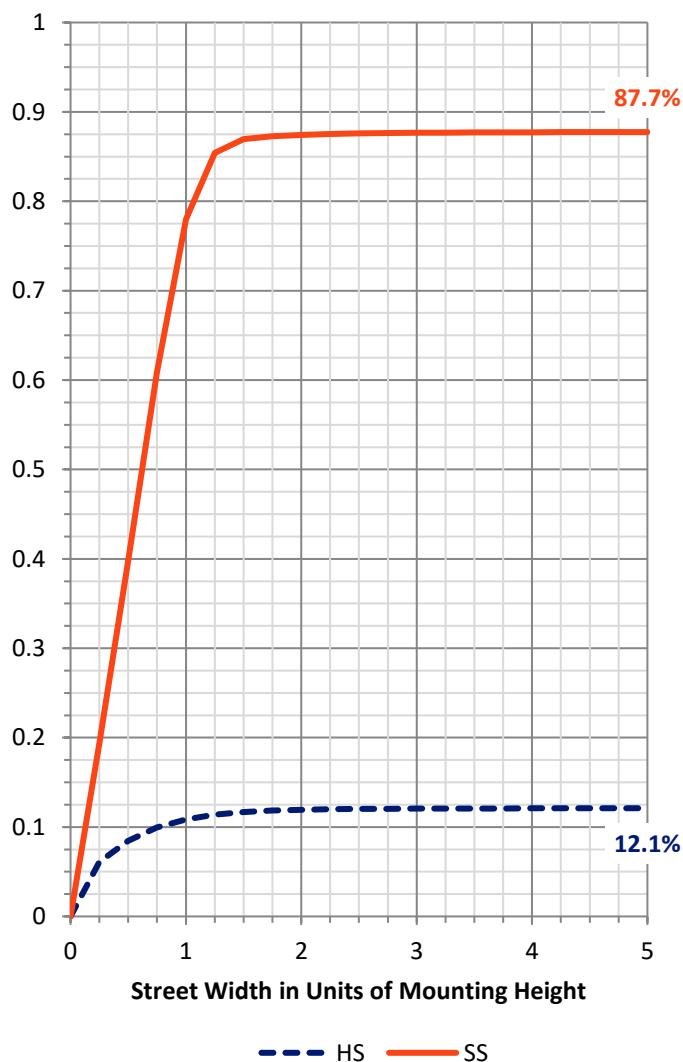
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3484.6	0.0	3484.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	25134.4	0.0	25134.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	28619.0	0.0	28619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.5	2.6
10°-20°	1976.9	6.9
20°-30°	3375.4	11.8
30°-40°	6215.7	21.7
40°-50°	9653.0	33.7
50°-60°	5809.5	20.3
60°-70°	671.9	2.3
70°-80°	130.1	0.5
80°-90°	30.1	0.1
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°	28619.0	100.0
0°-180°	28619.0	100.0

Coefficient of Utilization



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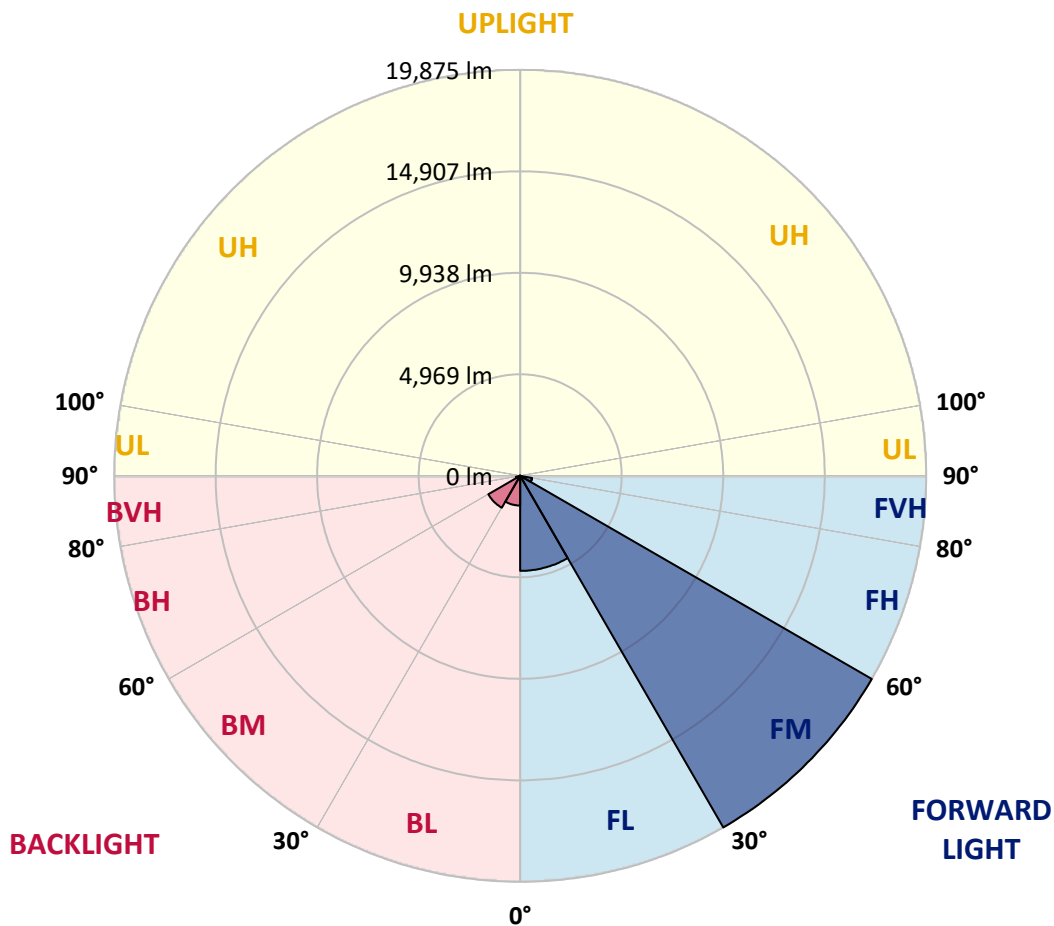
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4653.1	16.3			
FM (30°-60°)	19875.3	69.4			
FH (60°-80°)	591.7	2.1			G0/660
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1455.6	5.1	B3/2500		
BM (30°-60°)	1802.9	6.3	B2/2500		
BH (60°-80°)	210.3	0.7	B1/500		G1/500
BVH (80°-90°)	15.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7
2.5°	10016.9	9787.5	9808.3	9658.1	9570.5	9428.7	9236.8	9199.2	8990.6	8706.9	8419.1
5°	10918.1	10863.8	10934.8	10717.8	10726.2	10492.5	10042.0	10050.3	9570.5	9107.4	8661.0
7.5°	10976.5	10851.3	10922.2	11114.2	11226.8	11185.1	10930.6	10709.5	10254.7	9574.7	8923.9
10°	9829.2	10067.0	10142.1	10459.2	10909.7	11385.3	11356.1	11368.6	10989.0	10100.4	9149.2
12.5°	9140.8	8982.3	9236.8	9428.7	10108.7	11030.7	11452.1	11543.9	11573.1	10609.3	9374.4
15°	8827.9	8827.9	8869.6	8923.9	9416.2	10267.2	11126.7	11393.7	12023.6	11276.9	9729.1
17.5°	9024.0	9015.6	9074.1	8961.4	9145.0	9800.0	10826.3	11130.8	12528.5	11931.9	10008.6
20°	9620.6	9649.8	9612.2	9286.8	9299.3	9791.6	10492.5	10972.3	12870.6	12499.3	10379.9
22.5°	10450.8	10467.5	10254.7	9900.1	9795.8	10037.8	10684.4	11051.6	13145.9	13179.3	10492.5
25°	11410.4	11343.6	11301.9	10801.3	10484.2	10692.8	11118.3	11331.1	13317.0	13763.4	10813.8
27.5°	12741.2	12607.7	12353.2	11906.8	11673.2	11377.0	11681.5	12032.0	13805.1	14581.1	11164.2
30°	14706.2	14589.4	14092.9	13517.2	12903.9	12611.9	12707.9	12899.8	14685.4	15528.1	11627.3
32.5°	17664.2	17418.0	16700.4	15603.2	14768.8	13963.6	13938.6	14143.0	15473.9	16838.1	12178.0
35°	20922.5	20847.4	19791.9	18661.3	17046.7	15803.5	15824.3	15932.8	16984.1	18557.0	12899.8
37.5°	23087.7	23500.8	22829.1	21615.0	20259.1	18481.9	18031.3	18068.8	19057.6	20592.9	14201.4
40°	24760.7	24410.3	24489.5	24205.8	23279.6	22069.8	21072.7	20876.6	21456.5	22845.8	15494.7
42.5°	24030.6	24047.3	24535.4	25207.1	25436.6	25348.9	24331.0	23959.7	23509.1	24689.8	16725.5
45°	21969.6	22399.4	23033.5	24810.8	26371.1	27835.4	27635.2	27017.7	24927.6	26150.0	17434.7
47.5°	18682.1	18665.4	19704.3	22015.5	25482.5	28911.8	29821.3	29387.4	25933.0	25987.3	17288.7
48°	17468.1	17768.5	18840.7	21560.8	24919.2	28753.3	30017.4	29470.9	25762.0	25770.3	17163.5
50°	12912.3	12858.0	14193.1	17530.7	22257.5	27017.7	29191.3	29616.9	25757.8	24673.1	16287.4
52.5°	6821.2	7054.8	8026.9	11022.4	15736.7	22111.5	25749.5	26412.8	24848.3	22879.1	15027.5
55°	2899.5	2620.0	3366.8	4977.2	8852.9	14773.0	18890.7	20367.6	21010.1	20246.6	13145.9
57.5°	1034.7	1130.6	1301.7	1873.2	3721.4	8085.3	11264.3	12411.6	14556.0	14856.4	8957.2
60°	663.3	675.9	730.1	859.4	1397.6	3116.5	5344.3	6258.0	7230.0	7463.7	4180.3
62.5°	513.2	517.3	542.4	563.2	663.3	1209.9	2006.7	2378.0	2469.8	2123.5	1097.2
65°	429.7	433.9	442.2	442.2	471.4	567.4	700.9	771.8	751.0	742.6	621.6
67.5°	329.6	337.9	354.6	354.6	371.3	346.3	388.0	413.0	467.3	567.4	529.8
70°	258.7	262.8	275.4	283.7	283.7	250.3	279.5	304.6	342.1	421.4	417.2
72.5°	200.3	208.6	216.9	216.9	204.4	171.1	200.3	221.1	246.1	292.0	283.7
75°	154.4	154.4	158.5	129.3	100.1	87.6	121.0	146.0	183.6	191.9	158.5
77.5°	41.7	45.9	41.7	37.5	41.7	62.6	79.3	91.8	116.8	116.8	104.3
80°	0.0	4.2	12.5	25.0	41.7	58.4	70.9	79.3	91.8	100.1	96.0
82.5°	0.0	4.2	12.5	25.0	37.5	45.9	62.6	66.8	75.1	87.6	87.6
85°	0.0	4.2	8.3	16.7	25.0	29.2	29.2	25.0	25.0	20.9	16.7
87.5°	0.0	0.0	4.2	8.3	8.3	12.5	12.5	12.5	12.5	12.5	12.5
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°	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7	8264.7
2.5°	8306.4	8177.1	7981.0	7672.3	7376.1	7184.1	7000.6	6796.2	6683.5	6675.2	6612.6
5°	8406.5	8114.5	7647.2	7117.4	6550.0	6061.9	5569.6	5248.4	4960.5	4801.9	4772.7
7.5°	8460.8	8081.1	7326.0	6437.4	5469.5	4672.6	4121.9	3717.2	3558.7	3441.9	3437.7
10°	8573.4	8022.7	6846.2	5536.2	4338.9	3533.7	3154.0	2970.4	2882.8	2849.5	2799.4
12.5°	8656.9	7914.2	6353.9	4610.0	3429.4	2928.7	2761.9	2720.1	2724.3	2741.0	2720.1
15°	8773.7	7818.3	5690.6	3784.0	2878.7	2636.7	2636.7	2645.0	2703.4	2711.8	2707.6
17.5°	8765.3	7630.6	5006.4	3116.5	2544.9	2511.5	2524.0	2603.3	2640.9	2653.4	2624.2
20°	8865.5	7455.3	4301.3	2661.7	2357.2	2407.2	2490.7	2511.5	2557.4	2565.8	2532.4
22.5°	8836.3	7017.3	3646.3	2302.9	2215.3	2311.3	2394.7	2419.7	2407.2	2382.2	2378.0
25°	8782.0	6641.8	3045.5	2065.1	2111.0	2215.3	2294.6	2248.7	2223.7	2227.8	2232.0
27.5°	8686.1	6166.2	2549.1	1898.3	1969.2	2123.5	2119.4	2102.7	2127.7	2106.8	2127.7
30°	8669.4	5690.6	2140.2	1748.1	1864.9	1977.5	1985.9	2015.1	2044.3	2006.7	2044.3
32.5°	8694.4	5169.1	1848.2	1656.3	1802.3	1806.5	1898.3	1927.5	1906.6	1823.2	1831.5
35°	8886.3	4768.6	1635.4	1606.2	1702.2	1706.3	1794.0	1756.4	1664.6	1614.6	1643.8
37.5°	9291.0	4434.8	1535.3	1560.3	1568.7	1622.9	1627.1	1552.0	1560.3	1556.1	1572.8
40°	9808.3	4180.3	1464.4	1518.6	1510.3	1547.8	1397.6	1439.3	1476.9	1489.4	1497.7
42.5°	10162.9	3996.8	1418.5	1451.8	1435.2	1368.4	1285.0	1326.7	1355.9	1401.8	1410.1
45°	10321.5	3850.7	1364.2	1335.0	1335.0	1214.0	1180.7	1189.0	1255.8	1305.8	1297.5
47.5°	10062.8	3708.9	1268.3	1180.7	1209.9	1109.7	1072.2	1072.2	1143.1	1205.7	1193.2
48°	9962.7	3650.5	1272.5	1147.3	1168.2	1093.1	1055.5	1047.2	1126.4	1184.8	1184.8
50°	9466.2	3433.5	1164.0	1055.5	1013.8	1005.4	980.4	988.8	1038.8	1093.1	1093.1
52.5°	8498.3	2966.3	984.6	905.3	830.2	880.3	892.8	876.1	901.1	951.2	947.0
55°	7092.4	2277.9	788.5	751.0	692.5	746.8	771.8	751.0	725.9	763.5	763.5
57.5°	4543.3	1226.6	630.0	638.3	579.9	634.1	655.0	604.9	559.0	588.2	584.1
60°	2048.4	734.3	517.3	504.8	467.3	529.8	563.2	504.8	442.2	463.1	483.9
62.5°	767.6	521.5	392.2	383.8	375.5	433.9	450.6	404.7	342.1	354.6	358.8
65°	563.2	458.9	312.9	283.7	300.4	342.1	333.8	287.9	246.1	246.1	254.5
67.5°	479.8	400.5	254.5	221.1	221.1	225.3	208.6	183.6	171.1	179.4	187.7
70°	375.5	317.1	200.3	171.1	154.4	137.7	121.0	116.8	104.3	116.8	112.6
72.5°	242.0	212.8	154.4	129.3	116.8	96.0	79.3	75.1	62.6	58.4	58.4
75°	129.3	129.3	121.0	104.3	91.8	75.1	62.6	50.1	33.4	25.0	25.0
77.5°	91.8	100.1	108.5	100.1	83.4	62.6	50.1	33.4	16.7	8.3	8.3
80°	87.6	100.1	108.5	96.0	83.4	62.6	45.9	25.0	12.5	4.2	4.2
82.5°	79.3	91.8	100.1	87.6	75.1	54.2	41.7	25.0	12.5	4.2	4.2
85°	16.7	20.9	25.0	25.0	29.2	37.5	29.2	20.9	8.3	4.2	4.2
87.5°	12.5	12.5	12.5	12.5	12.5	12.5	8.3	8.3	4.2	4.2	4.2
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)