

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: P528790

Luminaire Tested: **GALN-SA3D-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14474 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

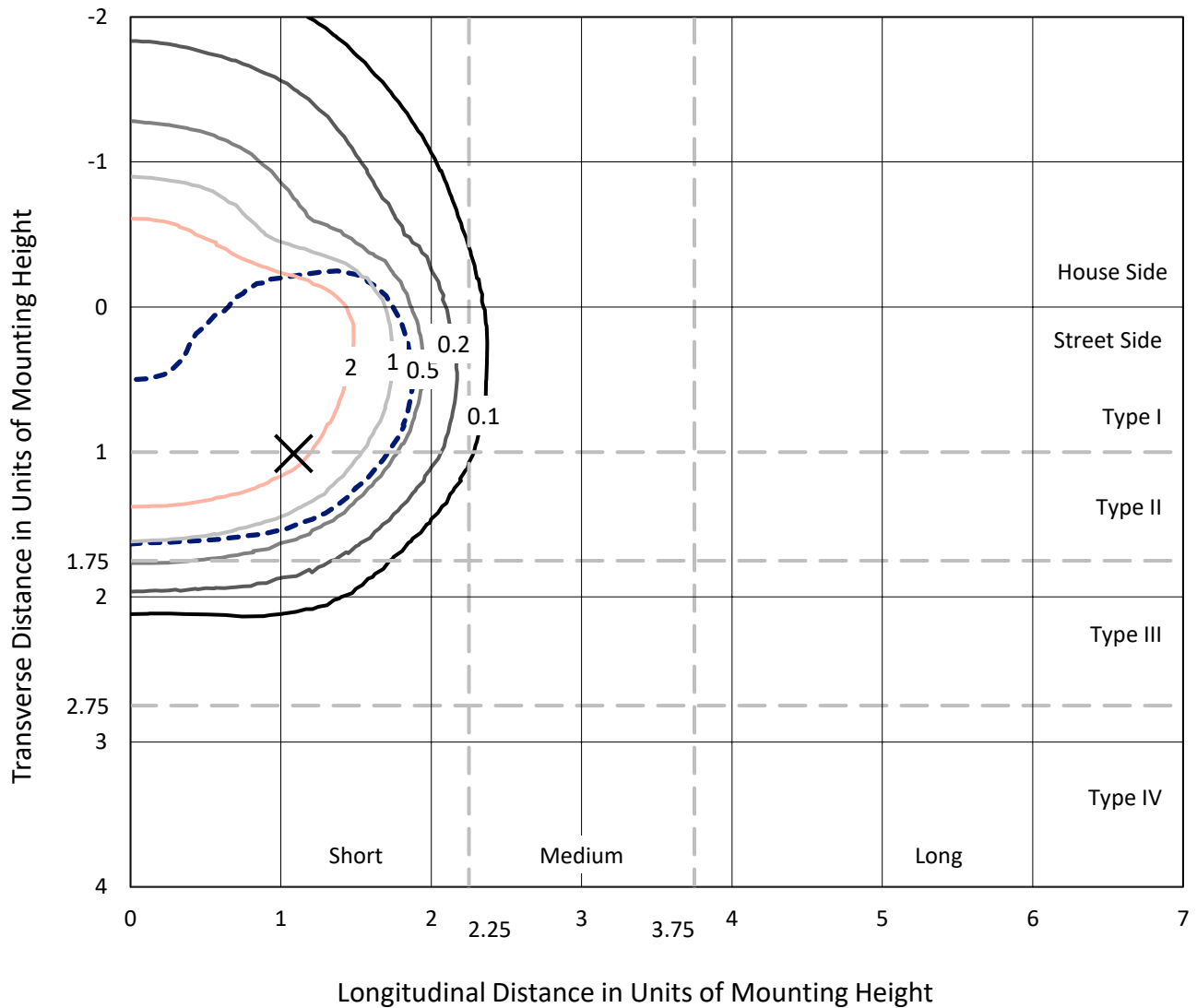
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

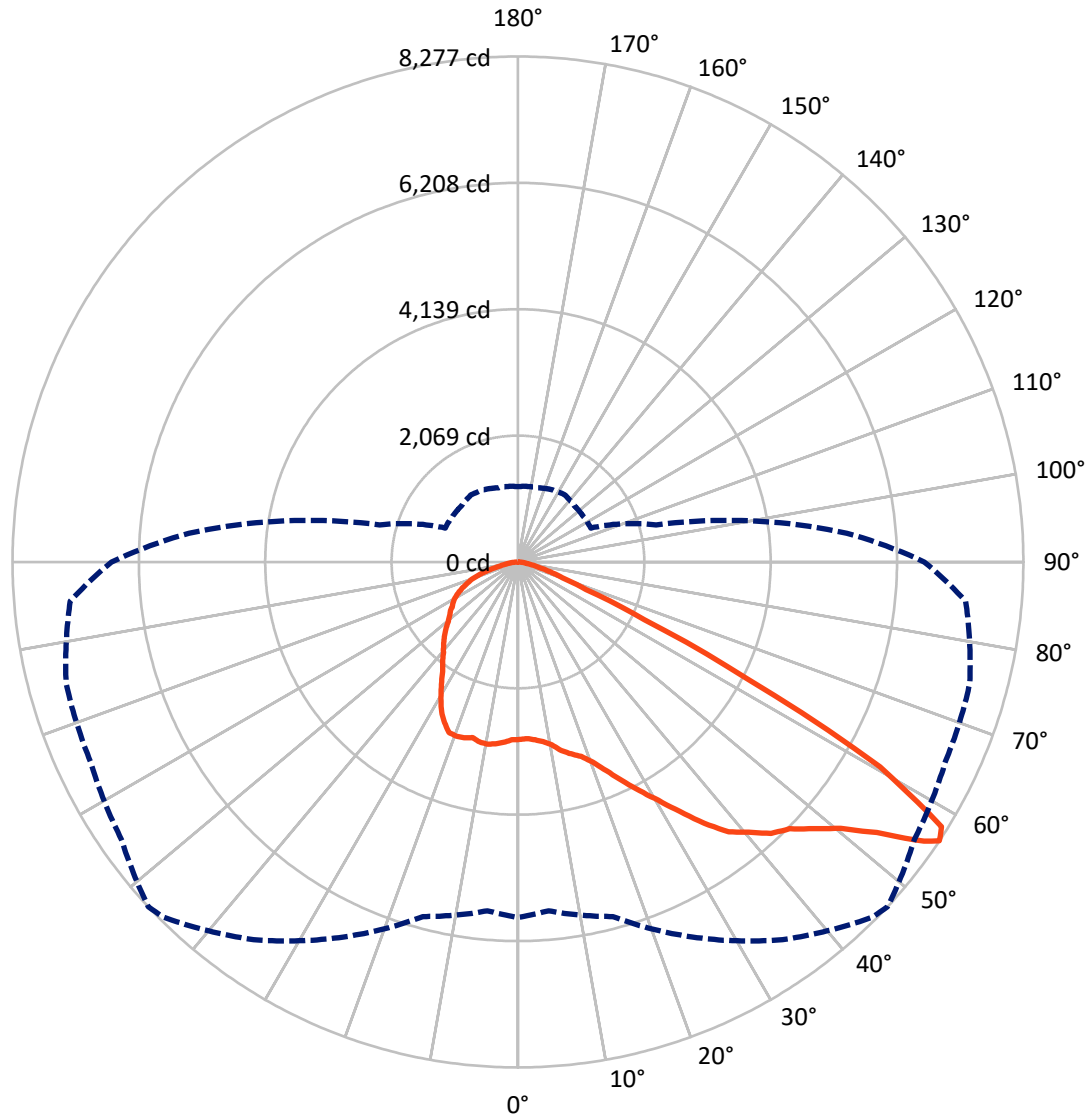
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA3D-827-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4586.6	0.0	4586.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	9887.4	0.0	9887.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	14474.0	0.0	14474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	2.0
10°-20°	893.6	6.2
20°-30°	1579.7	10.9
30°-40°	2372.7	16.4
40°-50°	3256.3	22.5
50°-60°	3879.4	26.8
60°-70°	1660.2	11.5
70°-80°	469.8	3.2
80°-90°	79.1	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°	14474.0	100.0
0°-180°	14474.0	100.0

Coefficient of Utilization



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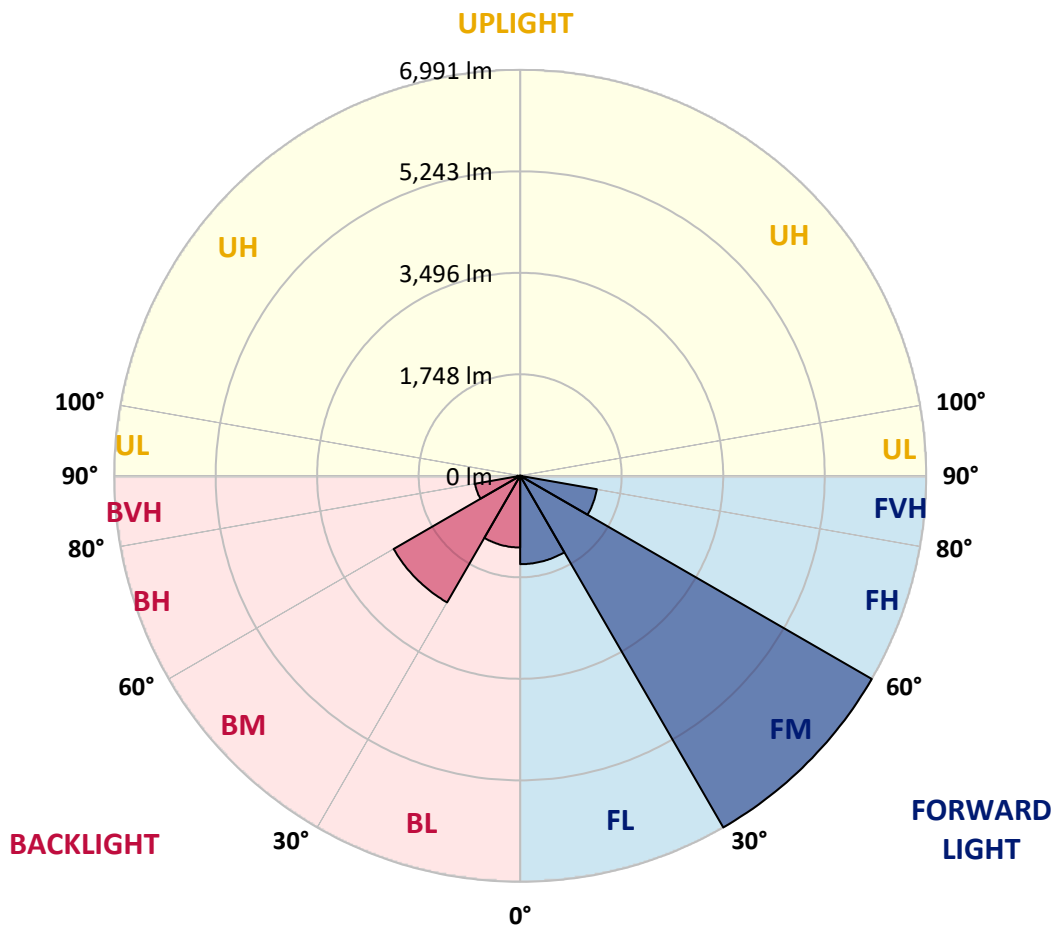
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1521.7	10.5			
FM (30°-60°)	6991.3	48.3			
FH (60°-80°)	1340.8	9.3			G1/1800
FVH (80°-90°)	33.6	0.2			G1/100
BL (0°-30°)	1234.9	8.5	B3/2500		
BM (30°-60°)	2517.1	17.4	B3/5000		
BH (60°-80°)	789.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	45.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4
2.5°	2896.3	2890.8	2887.1	2916.6	2905.5	2907.4	2896.3	2907.4	2914.8	2898.2	2922.2
5°	2890.8	2907.4	2892.6	2901.8	2925.8	2918.5	2925.8	2948.0	2942.5	2936.9	2929.5
7.5°	2942.5	2944.3	2955.4	2959.1	2966.5	2959.1	2970.1	2990.5	2984.9	2953.5	2957.2
10°	3016.3	3020.0	3021.8	3042.1	3055.1	3056.9	3044.0	3025.5	3023.7	3066.1	3036.6
12.5°	3101.2	3092.0	3114.1	3121.5	3136.3	3152.9	3169.5	3130.7	3154.7	3156.6	3121.5
15°	3224.9	3234.1	3208.3	3208.3	3213.8	3215.7	3261.8	3243.4	3239.7	3219.4	3234.1
17.5°	3409.5	3346.7	3344.9	3319.0	3315.3	3330.1	3346.7	3361.5	3411.3	3370.7	3291.3
20°	3544.2	3559.0	3505.5	3474.1	3479.6	3512.9	3496.2	3562.7	3597.8	3531.3	3453.8
22.5°	3782.4	3732.5	3745.5	3675.3	3680.8	3715.9	3714.1	3782.4	3802.7	3697.5	3584.9
25°	3943.0	3930.0	3941.1	3885.7	3893.1	3920.8	3965.1	4077.7	4044.5	3928.2	3667.9
27.5°	4177.4	4151.6	4142.3	4122.0	4114.6	4188.5	4240.2	4360.2	4336.2	4166.3	3815.6
30°	4417.4	4400.8	4410.0	4326.9	4356.5	4513.4	4528.1	4692.4	4681.4	4382.3	3979.9
32.5°	4583.5	4592.7	4609.4	4563.2	4694.3	4819.8	4869.6	5056.1	5065.3	4753.3	4297.4
35°	4851.2	4819.8	4829.0	4882.6	4943.5	5172.4	5253.6	5377.3	5454.8	5142.8	4602.0
37.5°	5019.2	5052.4	5013.6	5098.5	5257.3	5532.3	5606.2	5733.6	5814.8	5526.8	5017.3
40°	5281.3	5227.8	5255.4	5316.4	5478.8	5836.9	5816.6	5947.7	5973.5	5853.5	5405.0
42.5°	5563.7	5537.9	5499.1	5637.6	5774.2	6034.4	6075.1	6014.1	6145.2	6172.9	5958.8
45°	5901.5	5932.9	5938.5	5942.1	6062.1	6289.2	6233.8	6180.3	6331.6	6532.9	6302.1
47.5°	6215.3	6115.7	6187.7	6287.3	6457.2	6459.0	6523.6	6396.3	6556.8	6735.9	6612.2
50°	6320.6	6272.6	6368.6	6556.8	6819.0	6846.7	6854.0	6673.1	6756.2	6898.4	6719.3
52.5°	6280.0	6263.3	6508.9	6800.5	7184.5	7324.8	7361.7	7138.3	7184.5	7119.9	6955.6
55°	6086.1	6136.0	6383.3	6977.7	7566.6	8000.4	8070.5	7788.1	7494.6	7544.4	7363.5
56°	5820.3	5733.6	6010.4	6776.5	7550.0	8220.1	8277.3	7924.7	7725.3	7660.7	7359.8
57.5°	4937.9	4825.3	5189.0	6097.2	7130.9	8137.0	8179.4	7981.9	7686.6	7555.5	6822.7
60°	2890.8	2946.2	3407.6	4205.1	5501.0	6671.3	6813.4	6957.4	6759.9	6172.9	5078.2
62.5°	1395.5	1360.5	1690.9	2410.8	3352.3	4258.6	4216.2	4620.4	4842.0	4386.0	3206.4
65°	731.0	727.3	923.0	1316.2	1842.3	2237.3	2276.1	2493.9	2798.5	2259.5	1628.1
67.5°	537.2	551.9	649.8	924.8	1185.1	1209.1	1203.6	1312.5	1342.0	1135.3	1000.5
70°	420.9	428.3	500.3	703.3	882.4	790.1	773.5	786.4	873.1	910.1	865.8
72.5°	304.6	312.0	372.9	474.4	551.9	539.0	550.1	622.1	729.2	767.9	721.8
75°	203.1	208.6	241.8	289.8	326.7	352.6	372.9	456.0	555.6	577.8	555.6
77.5°	140.3	145.8	168.0	204.9	208.6	225.2	232.6	271.4	332.3	360.0	345.2
80°	79.4	79.4	90.5	105.2	129.2	151.4	155.1	186.4	214.1	232.6	236.3
82.5°	36.9	38.8	48.0	64.6	84.9	105.2	108.9	129.2	149.5	168.0	173.5
85°	18.5	20.3	27.7	38.8	51.7	62.8	60.9	62.8	66.5	62.8	64.6
87.5°	5.5	5.5	7.4	9.2	7.4	9.2	9.2	11.1	12.9	14.8	16.6
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°	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4	2907.4
2.5°	2924.0	2929.5	2892.6	2927.7	2914.8	2912.9	2938.8	2935.1	2944.3	2940.6	2918.5
5°	2925.8	2912.9	2951.7	2916.6	2933.2	2968.3	2944.3	2999.7	2972.0	2990.5	2949.8
7.5°	2983.1	2986.8	2979.4	2994.1	2986.8	3003.4	2990.5	3003.4	2981.2	2983.1	3020.0
10°	3032.9	3021.8	3034.8	3016.3	3029.2	3023.7	2994.1	2984.9	2992.3	2983.1	3007.1
12.5°	3125.2	3104.9	3095.7	3073.5	3058.8	3003.4	2957.2	2931.4	2966.5	2972.0	2960.9
15°	3219.4	3221.2	3178.7	3128.9	3036.6	2953.5	2964.6	2973.8	2973.8	2988.6	2960.9
17.5°	3278.4	3278.4	3239.7	3140.0	3045.8	2997.8	2986.8	2957.2	2931.4	2927.7	2925.8
20°	3381.8	3350.4	3261.8	3138.1	3042.1	3020.0	2936.9	2866.8	2813.2	2794.8	2792.9
22.5°	3499.9	3420.6	3296.9	3141.8	3036.6	3005.2	2850.2	2744.9	2649.0	2608.3	2613.9
25°	3608.9	3481.5	3317.2	3125.2	3016.3	2864.9	2691.4	2545.6	2445.9	2412.7	2396.1
27.5°	3684.5	3546.1	3317.2	3140.0	2940.6	2708.0	2530.8	2344.4	2257.6	2235.5	2239.1
30°	3786.1	3627.3	3374.4	3108.6	2789.2	2505.0	2292.7	2170.8	2119.2	2100.7	2113.6
32.5°	4024.2	3839.6	3453.8	3032.9	2610.2	2301.9	2130.2	2061.9	1986.3	1949.3	1936.4
35°	4282.6	4040.8	3531.3	2905.5	2409.0	2117.3	2010.3	1947.5	1857.0	1816.4	1823.8
37.5°	4648.1	4299.2	3536.9	2695.1	2191.2	2013.9	1916.1	1818.3	1744.4	1681.7	1663.2
40°	5141.0	4651.8	3523.9	2473.6	2015.8	1892.1	1820.1	1698.3	1615.2	1570.9	1580.1
42.5°	5574.8	5065.3	3470.4	2222.5	1857.0	1809.0	1727.8	1607.8	1526.6	1480.5	1476.8
45°	5940.3	5369.9	3368.9	2008.4	1724.1	1716.7	1622.6	1530.3	1465.7	1423.2	1441.7
47.5°	6278.1	5615.4	3215.7	1794.3	1602.3	1617.1	1526.6	1469.4	1428.8	1390.0	1388.2
50°	6399.9	5611.7	3080.9	1617.1	1504.5	1497.1	1493.4	1432.5	1390.0	1356.8	1371.5
52.5°	6603.0	5674.5	2935.1	1495.2	1415.9	1417.7	1430.6	1386.3	1338.3	1318.0	1336.5
55°	6894.7	5683.7	2613.9	1353.1	1342.0	1354.9	1354.9	1325.4	1284.8	1268.2	1258.9
56°	6656.5	5408.7	2344.4	1316.2	1305.1	1305.1	1340.2	1306.9	1257.1	1244.2	1233.1
57.5°	6139.7	4738.6	1962.3	1271.9	1255.3	1281.1	1299.6	1264.5	1218.3	1199.9	1210.9
60°	4234.6	3206.4	1474.9	1175.9	1175.9	1218.3	1233.1	1181.4	1161.1	1159.3	1144.5
62.5°	2471.7	1868.1	1153.7	1089.1	1092.8	1127.9	1139.0	1109.4	1083.6	1115.0	1129.7
65°	1310.6	1115.0	989.4	996.8	998.7	1026.4	1074.3	1072.5	1070.7	1079.9	1081.7
67.5°	948.8	926.7	899.0	891.6	895.3	915.6	963.6	1000.5	998.7	976.5	959.9
70°	845.4	814.1	797.5	799.3	784.5	808.5	847.3	871.3	828.8	803.0	791.9
72.5°	703.3	694.1	683.0	684.9	655.3	649.8	605.5	605.5	594.4	587.0	599.9
75°	537.2	533.5	539.0	529.8	498.4	465.2	439.3	415.3	378.4	363.7	356.3
77.5°	339.7	350.7	363.7	343.3	330.4	306.4	280.6	256.6	227.1	210.4	210.4
80°	230.7	240.0	249.2	245.5	230.7	208.6	188.3	162.4	142.1	129.2	127.4
82.5°	175.4	182.8	195.7	180.9	166.1	147.7	131.1	112.6	94.1	79.4	79.4
85°	62.8	72.0	79.4	86.8	92.3	94.1	81.2	66.5	53.5	42.5	40.6
87.5°	16.6	18.5	20.3	18.5	18.5	18.5	20.3	18.5	16.6	12.9	12.9
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)