

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: P530579

Luminaire Tested: **GALN-SA5D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22853 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

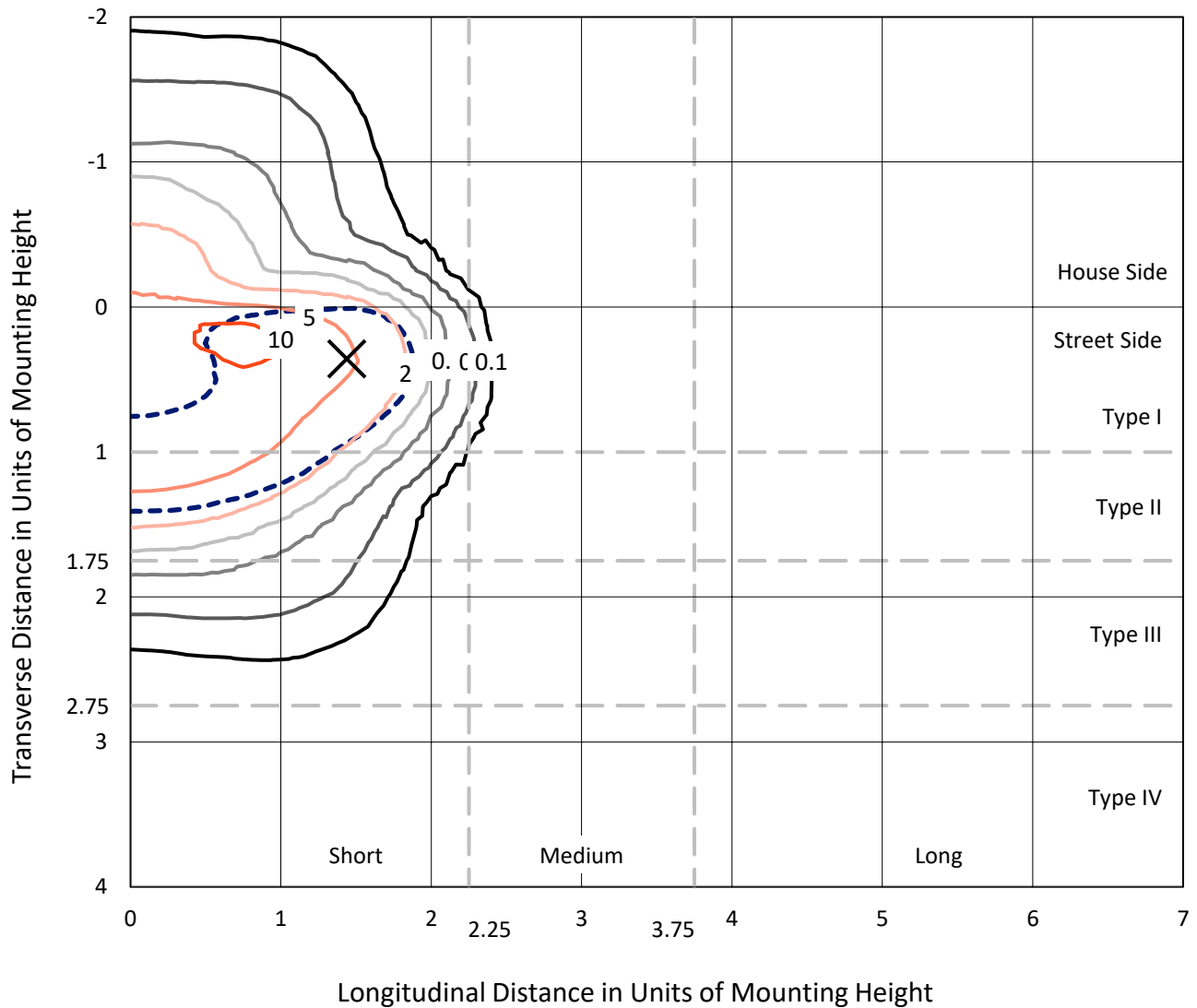
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

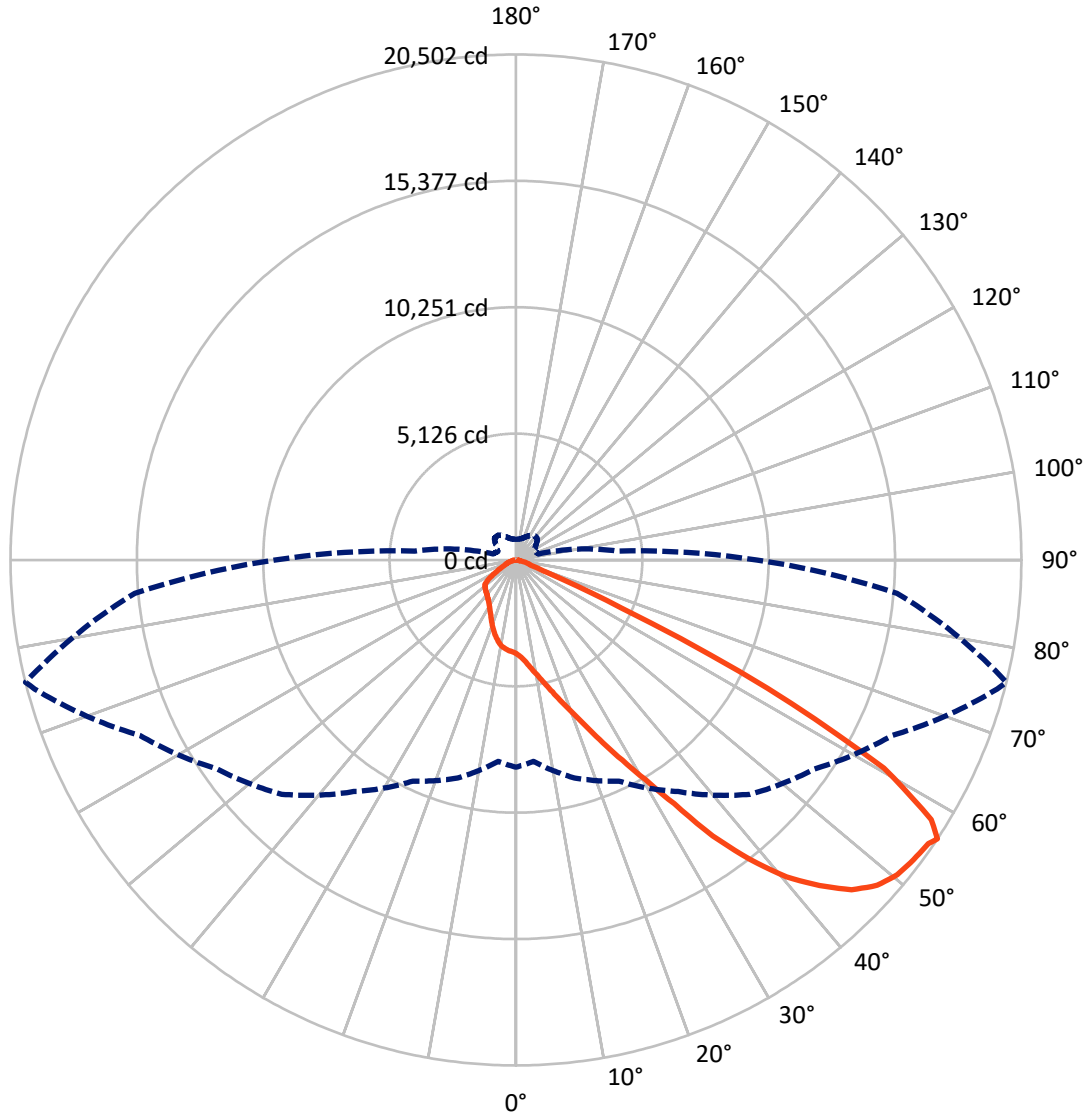
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3590.1	0.0	3590.1
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	19262.9	0.0	19262.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	22853.0	0.0	22853.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.2	1.7
10°-20°	1231.1	5.4
20°-30°	2232.2	9.8
30°-40°	3849.6	16.8
40°-50°	6253.8	27.4
50°-60°	6591.7	28.8
60°-70°	2014.0	8.8
70°-80°	258.2	1.1
80°-90°	39.2	0.2
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°	22853.0	100.0
0°-180°	22853.0	100.0

**Coefficient of Utilization**

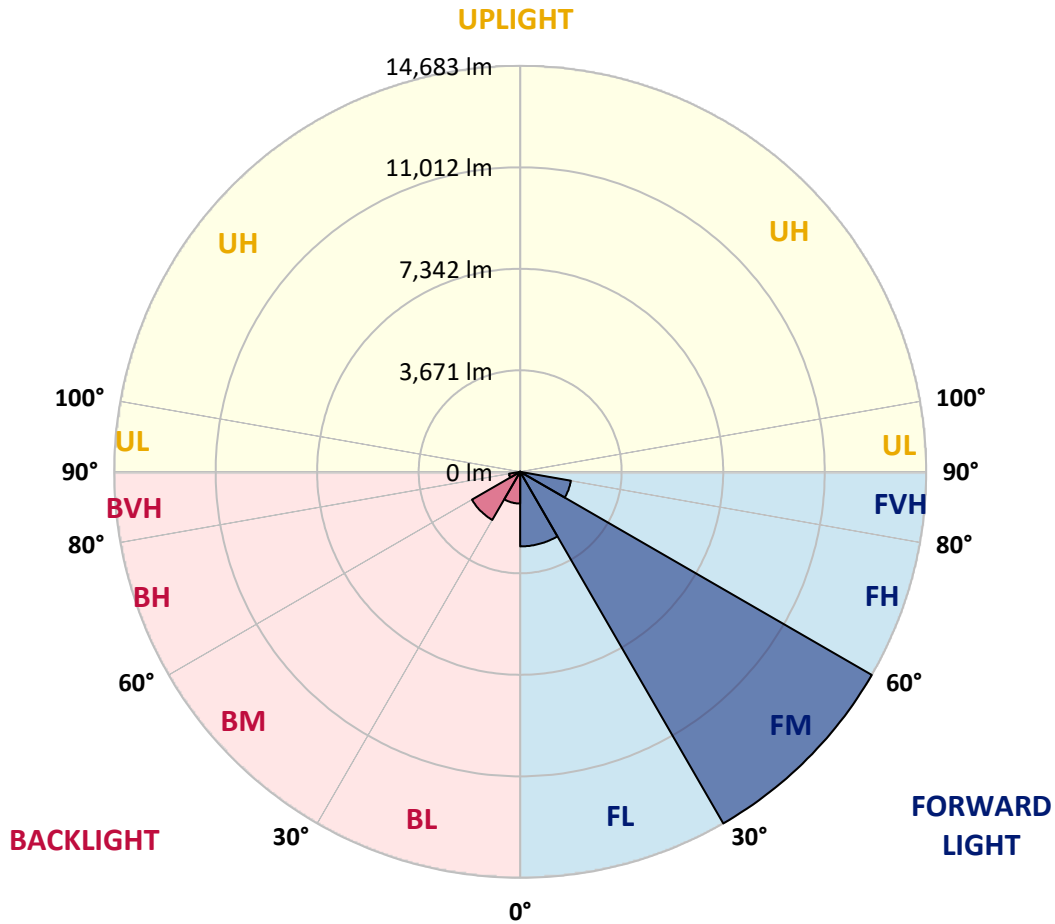


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2698.0	11.8			
FM (30°-60°)	14683.0	64.2			
FH (60°-80°)	1862.7	8.2			G2/5000
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	1148.5	5.0	B3/2500		
BM (30°-60°)	2012.0	8.8	B2/2500		
BH (60°-80°)	409.6	1.8	B1/500		G1/500
BVH (80°-90°)	20.0	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9
2.5°	4381.0	4279.9	4284.1	4275.7	4263.1	4216.7	4077.7	4056.7	3964.0	3938.7	3854.5
5°	4907.6	4819.1	4869.7	4793.9	4722.2	4680.1	4452.6	4347.3	4199.9	4145.1	4027.2
7.5°	5236.2	5194.1	5177.2	5181.4	5114.0	5008.7	4907.6	4675.9	4477.9	4435.8	4187.3
10°	5396.3	5371.0	5396.3	5383.6	5413.1	5425.7	5248.8	5109.8	4819.1	4747.5	4360.0
12.5°	5434.2	5484.7	5505.8	5560.5	5632.2	5754.3	5741.7	5552.1	5164.6	5118.2	4625.4
15°	5526.8	5569.0	5547.9	5636.4	5771.2	5977.6	6087.1	6057.6	5640.6	5556.3	4932.9
17.5°	5611.1	5535.3	5606.9	5783.8	5918.6	6234.5	6499.9	6622.1	6158.7	6061.8	5215.1
20°	5724.8	5703.8	5691.1	5779.6	6019.7	6441.0	6967.5	7190.8	6740.1	6639.0	5619.5
22.5°	6070.3	6074.5	6066.0	5935.5	6108.2	6584.2	7376.1	7928.0	7435.1	7350.9	6078.7
25°	6525.2	6470.4	6428.3	6323.0	6301.9	6714.8	7789.0	8829.5	8269.2	8210.2	6575.8
27.5°	7005.4	7005.4	6879.1	6782.2	6647.4	7039.1	8168.1	9705.7	9276.0	9196.0	7009.7
30°	7527.8	7557.3	7540.4	7334.0	7249.8	7393.0	8555.7	10826.2	10430.2	10329.1	7725.8
32.5°	8298.7	8235.5	8307.1	8134.4	7885.9	8012.2	9166.5	11828.8	11929.9	11786.7	8665.2
35°	9318.1	9280.2	9233.9	8951.6	8656.8	8757.9	10030.0	13063.1	13812.9	13741.3	9613.0
37.5°	10232.2	10211.2	10173.3	9979.5	9638.3	9760.4	11011.6	14347.9	15649.6	15413.7	10952.6
40°	11192.7	11306.4	11184.3	11011.6	10699.8	10969.4	12165.8	15110.4	17195.6	16909.1	11976.2
42.5°	12494.4	12405.9	12460.7	12144.7	11976.2	12271.1	13324.2	15872.8	18396.1	18054.9	13063.1
45°	13880.3	13884.5	13737.1	13636.0	13197.9	13518.0	14036.2	16294.1	19352.4	19087.0	13884.5
47.5°	14769.1	14764.9	14925.0	15085.1	14634.3	14318.4	14520.6	16694.3	19845.2	19723.1	14183.6
50°	14630.1	14672.2	14878.7	15476.8	15712.7	15287.3	14975.6	16576.3	20068.5	20055.9	14440.6
52.5°	12726.1	12865.1	13210.5	14074.1	15262.0	15788.6	15451.6	16795.4	20178.0	20199.1	14823.9
55°	9688.8	9764.6	10421.8	11470.7	12785.0	14588.0	15262.0	16968.1	20262.3	20300.2	15287.3
56°	8404.0	8201.8	9149.6	9895.2	11466.5	13438.0	14781.8	16833.3	20211.7	20502.4	15519.0
57.5°	6344.1	6209.3	6976.0	7906.9	9419.2	11500.2	13290.5	16197.2	19870.5	19866.3	15186.2
60°	3858.7	3723.9	4313.6	4861.3	5708.0	7081.3	8981.1	12898.8	16799.6	17153.4	12296.4
62.5°	2295.8	2380.1	2961.4	3294.2	3568.0	3711.2	4646.4	7666.8	11209.5	11462.3	7628.9
65°	1529.1	1558.6	1996.7	2544.4	2666.5	2123.1	1891.4	3104.6	4861.3	4705.4	3146.8
67.5°	943.6	1011.0	1339.6	1912.5	2118.9	1550.2	897.3	1158.4	1339.6	1339.6	909.9
70°	572.9	606.6	893.1	1301.7	1453.3	998.4	652.9	652.9	644.5	631.9	543.4
72.5°	273.8	294.9	455.0	669.8	682.4	526.6	505.5	551.8	539.2	535.0	450.7
75°	118.0	126.4	160.1	210.6	240.1	223.3	307.5	396.0	408.6	396.0	324.4
77.5°	37.9	42.1	59.0	75.8	80.0	96.9	130.6	164.3	189.6	176.9	160.1
80°	4.2	8.4	16.9	37.9	59.0	75.8	96.9	109.5	122.2	122.2	113.7
82.5°	4.2	4.2	16.9	33.7	54.8	71.6	92.7	105.3	122.2	126.4	118.0
85°	0.0	4.2	12.6	29.5	46.3	46.3	42.1	42.1	29.5	29.5	29.5
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9	3803.9
2.5°	3837.6	3829.2	3715.5	3643.8	3605.9	3530.1	3483.8	3450.1	3424.8	3395.3	3399.5
5°	3888.2	3858.7	3669.1	3538.5	3382.7	3298.4	3226.8	3167.8	3129.9	3121.5	3104.6
7.5°	4031.4	3875.5	3589.1	3353.2	3155.2	3070.9	3007.7	2969.8	2986.7	2948.8	2978.3
10°	4140.9	3909.2	3492.2	3151.0	2953.0	2889.8	2856.1	2885.6	2927.7	2910.9	2889.8
12.5°	4275.7	3942.9	3336.3	2957.2	2771.8	2725.5	2784.5	2839.2	2923.5	2957.2	2915.1
15°	4427.4	3980.8	3138.3	2733.9	2616.0	2653.9	2755.0	2851.9	2936.1	2978.3	3003.5
17.5°	4612.7	3968.2	2944.6	2557.0	2468.5	2578.1	2700.2	2788.7	2915.1	2978.3	2961.4
20°	4785.4	3926.1	2729.7	2380.1	2384.3	2485.4	2586.5	2729.7	2797.1	2881.4	2851.9
22.5°	4949.7	3850.3	2506.5	2257.9	2257.9	2413.8	2464.3	2557.0	2616.0	2658.1	2653.9
25°	5181.4	3707.0	2321.1	2140.0	2190.5	2291.6	2333.7	2363.2	2338.0	2371.7	2375.9
27.5°	5345.7	3559.6	2169.5	2034.7	2127.3	2203.2	2190.5	2173.7	2114.7	2068.4	2097.8
30°	5522.6	3386.9	2038.9	1963.0	2013.6	2081.0	2030.4	1979.9	1887.2	1811.4	1815.6
32.5°	5775.4	3306.8	1925.1	1878.8	1946.2	1954.6	1899.9	1824.0	1731.4	1659.7	1655.5
35°	6247.2	3256.3	1828.2	1824.0	1836.7	1840.9	1786.1	1693.4	1655.5	1596.5	1617.6
37.5°	6719.0	3231.0	1760.8	1744.0	1739.8	1744.0	1680.8	1592.3	1664.0	1659.7	1668.2
40°	7321.4	3344.8	1664.0	1642.9	1647.1	1647.1	1567.1	1541.8	1668.2	1680.8	1685.0
42.5°	7932.2	3488.0	1600.8	1533.4	1550.2	1550.2	1508.1	1478.6	1567.1	1482.8	1470.2
45°	8463.0	3698.6	1533.4	1423.8	1466.0	1487.0	1474.4	1423.8	1369.1	1225.8	1225.8
47.5°	8635.7	3884.0	1453.3	1318.5	1352.2	1444.9	1407.0	1301.7	1204.8	1086.8	1078.4
50°	8939.0	4086.2	1390.1	1196.4	1268.0	1381.7	1343.8	1238.5	1129.0	1044.7	1048.9
52.5°	9250.7	4317.8	1272.2	1053.1	1141.6	1331.2	1331.2	1213.2	1044.7	985.7	977.3
55°	9718.3	4309.4	1061.6	863.6	1019.4	1255.3	1276.4	1086.8	935.2	888.8	888.8
56°	9785.7	4115.6	956.2	808.8	964.7	1234.3	1238.5	1053.1	893.1	842.5	842.5
57.5°	9280.2	3715.5	838.3	741.4	897.3	1196.4	1200.6	1023.6	859.4	787.7	779.3
60°	7140.2	2514.9	699.3	661.4	813.0	1078.4	1099.5	931.0	754.0	699.3	695.1
62.5°	4031.4	1394.3	615.0	598.2	699.3	918.3	981.5	813.0	640.3	610.8	619.2
65°	1840.9	766.7	518.1	484.4	564.5	707.7	792.0	669.8	526.6	492.9	492.9
67.5°	674.0	522.4	442.3	383.3	396.0	459.2	513.9	433.9	349.6	299.1	311.7
70°	480.2	438.1	387.6	332.8	307.5	299.1	294.9	244.3	172.7	134.8	143.2
72.5°	387.6	362.3	324.4	282.2	240.1	202.2	172.7	126.4	80.0	54.8	50.6
75°	278.0	265.4	235.9	202.2	168.5	143.2	118.0	80.0	42.1	21.1	21.1
77.5°	143.2	143.2	139.0	126.4	105.3	84.3	67.4	46.3	25.3	8.4	8.4
80°	109.5	118.0	122.2	109.5	96.9	75.8	54.8	33.7	16.9	4.2	4.2
82.5°	105.3	122.2	130.6	113.7	96.9	71.6	54.8	33.7	16.9	4.2	4.2
85°	25.3	25.3	37.9	42.1	54.8	59.0	46.3	29.5	12.6	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	0.0
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)