

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: P532841

Luminaire Tested: **GALN-SA8B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532841  
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-SA8B-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA 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: 22668 lumens  
Efficiency: N/A  
Efficacy: 69.7 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

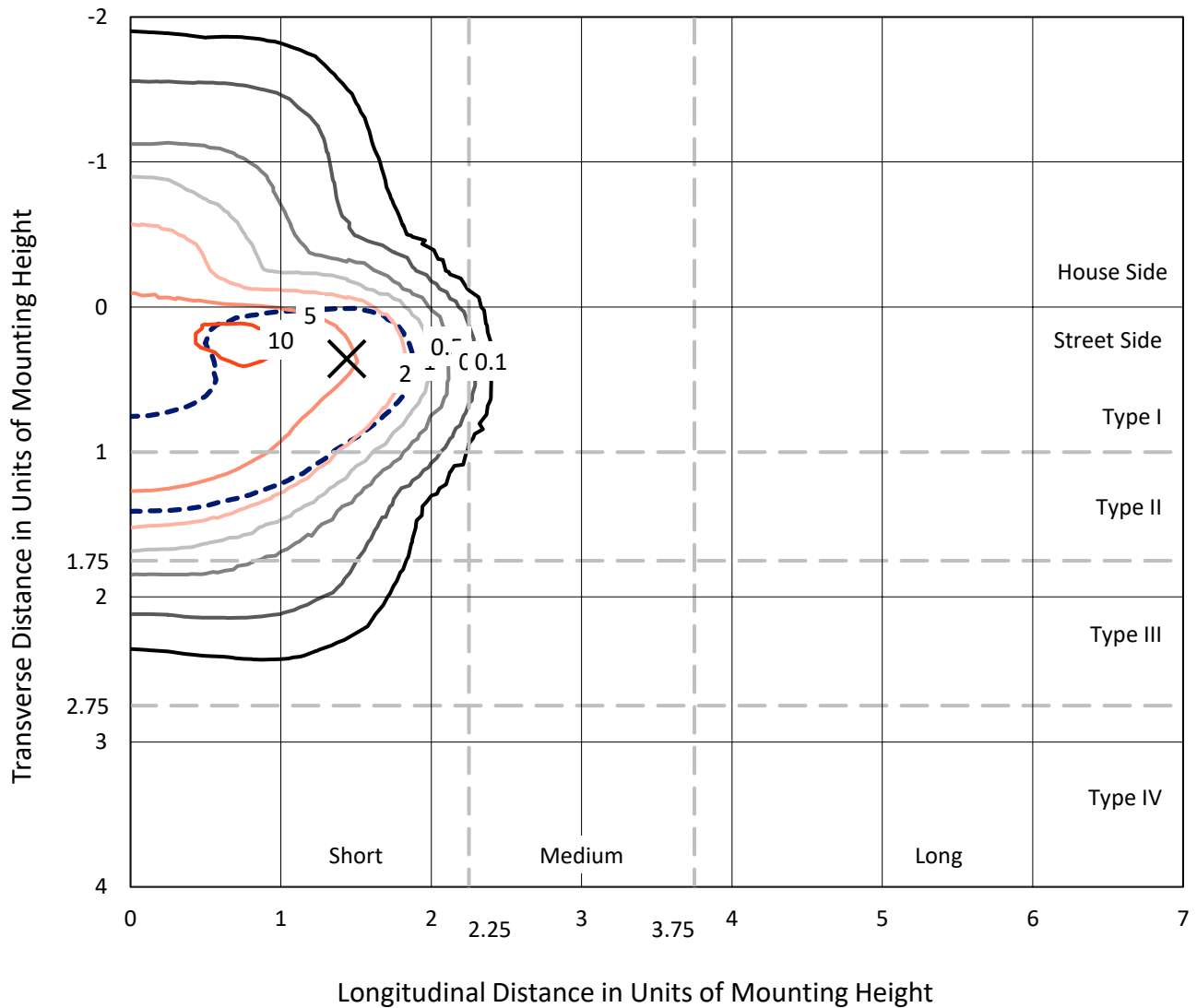
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

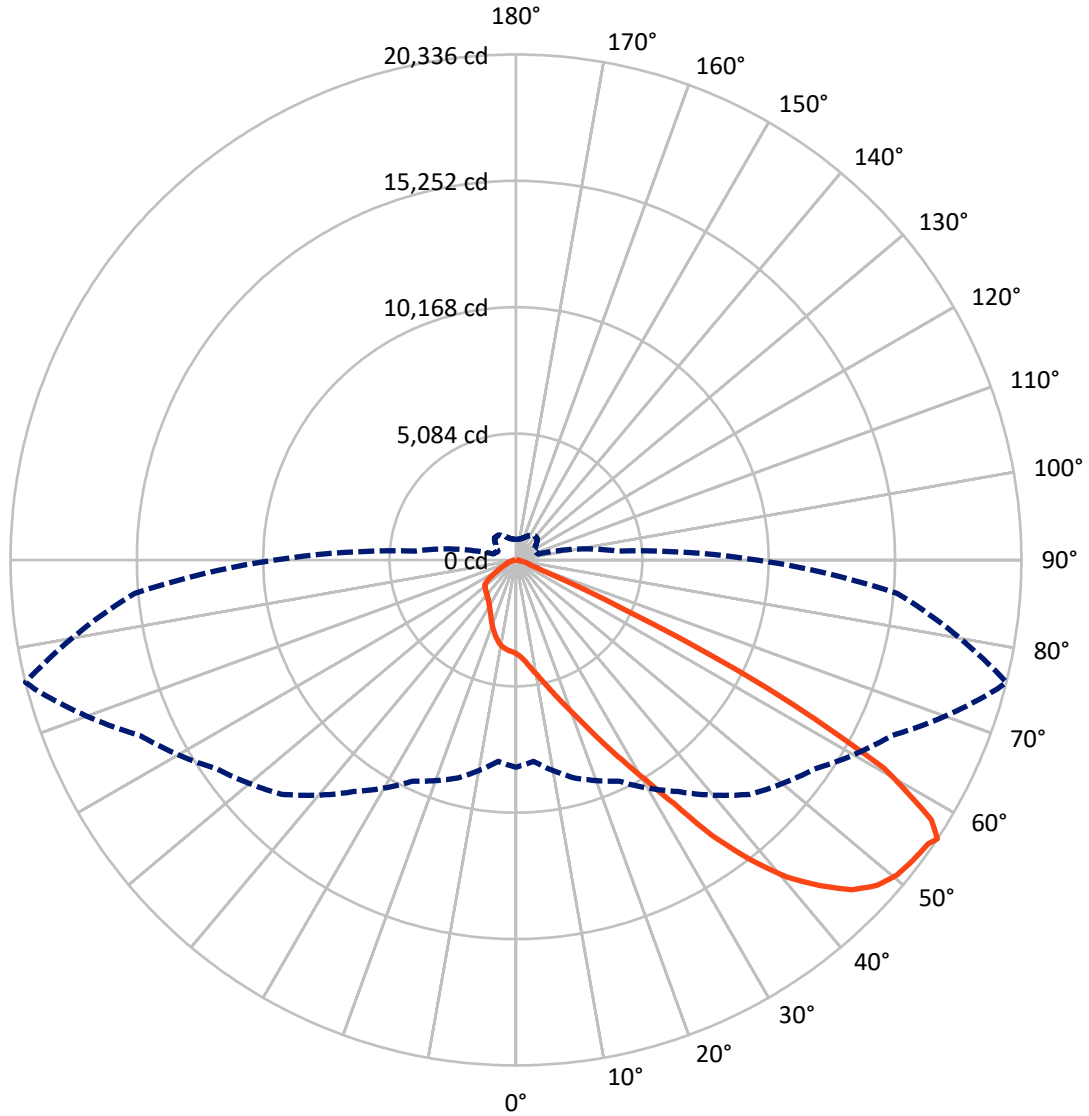
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	3561.0	0.0	3561.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	19107.0	0.0	19107.0
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	22668.0	0.0	22668.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.1	1.7
10°-20°	1221.1	5.4
20°-30°	2214.2	9.8
30°-40°	3818.4	16.8
40°-50°	6203.1	27.4
50°-60°	6538.3	28.8
60°-70°	1997.7	8.8
70°-80°	256.1	1.1
80°-90°	38.9	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°	22668.0	100.0
0°-180°	22668.0	100.0

**Coefficient of Utilization**

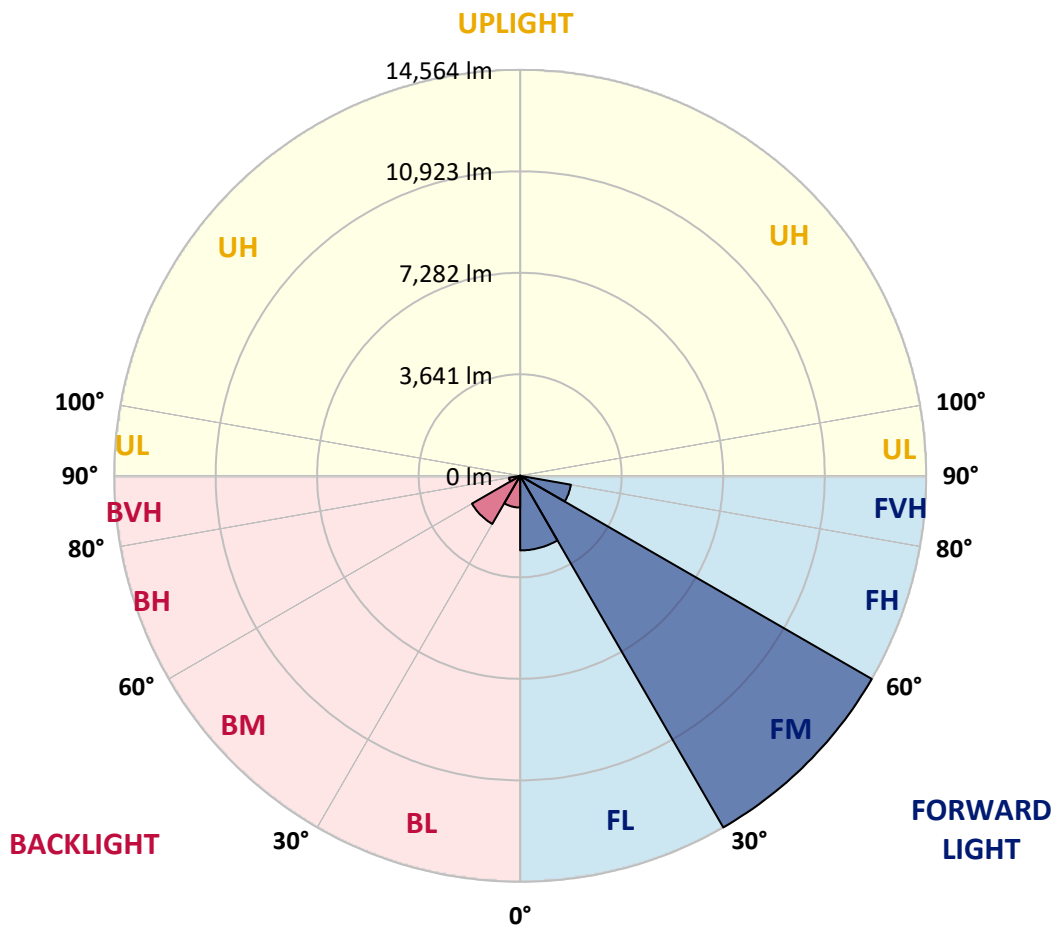


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2676.2	11.8			
FM (30°-60°)	14564.2	64.2			
FH (60°-80°)	1847.6	8.2			G2/5000
FVH (80°-90°)	19.1	0.1			G1/100
BL (0°-30°)	1139.2	5.0	B3/2500		
BM (30°-60°)	1995.8	8.8	B2/2500		
BH (60°-80°)	406.3	1.8	B1/500		G1/500
BVH (80°-90°)	19.9	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°	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1
2.5°	4345.6	4245.3	4249.5	4241.1	4228.6	4182.6	4044.7	4023.8	3931.9	3906.8	3823.3
5°	4867.9	4780.1	4830.3	4755.1	4684.0	4642.2	4416.6	4312.1	4165.9	4111.6	3994.6
7.5°	5193.8	5152.0	5135.3	5139.5	5072.6	4968.2	4867.9	4638.1	4441.7	4399.9	4153.4
10°	5352.6	5327.5	5352.6	5340.0	5369.3	5381.8	5206.3	5068.4	4780.1	4709.1	4324.7
12.5°	5390.2	5440.3	5461.2	5515.5	5586.6	5707.7	5695.2	5507.2	5122.8	5076.8	4587.9
15°	5482.1	5523.9	5503.0	5590.7	5724.4	5929.2	6037.8	6008.6	5594.9	5511.3	4892.9
17.5°	5565.7	5490.5	5561.5	5737.0	5870.7	6184.1	6447.3	6568.5	6108.9	6012.8	5172.9
20°	5678.5	5657.6	5645.1	5732.8	5971.0	6388.8	6911.1	7132.6	6685.5	6585.2	5574.0
22.5°	6021.1	6025.3	6016.9	5887.4	6058.7	6530.9	7316.4	7863.8	7374.9	7291.4	6029.5
25°	6472.4	6418.1	6376.3	6271.8	6250.9	6660.4	7725.9	8758.0	8202.3	8143.8	6522.5
27.5°	6948.7	6948.7	6823.4	6727.3	6593.6	6982.2	8102.0	9627.1	9200.9	9121.5	6952.9
30°	7466.9	7496.1	7479.4	7274.6	7191.1	7333.1	8486.4	10738.6	10345.8	10245.5	7663.2
32.5°	8231.5	8168.8	8239.9	8068.5	7822.0	7947.4	9092.3	11733.0	11833.3	11691.2	8595.0
35°	9242.7	9205.1	9159.1	8879.2	8586.7	8687.0	9948.8	12957.3	13701.1	13630.0	9535.2
37.5°	10149.4	10128.5	10090.9	9898.7	9560.2	9681.4	10922.4	14231.7	15522.9	15288.9	10863.9
40°	11102.1	11214.9	11093.7	10922.4	10613.2	10880.6	12067.3	14988.0	17056.4	16772.2	11879.3
42.5°	12393.2	12305.5	12359.8	12046.4	11879.3	12171.8	13216.4	15744.3	18247.2	17908.8	12957.3
45°	13767.9	13772.1	13625.9	13525.6	13091.0	13408.6	13922.5	16162.2	19195.7	18932.5	13772.1
47.5°	14649.6	14645.4	14804.2	14963.0	14515.9	14202.5	14403.0	16559.1	19684.6	19563.4	14068.8
50°	14511.7	14553.5	14758.2	15351.6	15585.5	15163.5	14854.3	16442.1	19906.0	19893.5	14323.7
52.5°	12623.0	12760.9	13103.6	13960.1	15138.5	15660.8	15326.5	16659.4	20014.7	20035.6	14703.9
55°	9610.4	9685.6	10337.4	11377.9	12681.5	14469.9	15138.5	16830.7	20098.3	20135.9	15163.5
56°	8336.0	8135.4	9075.6	9815.1	11373.7	13329.2	14662.1	16697.0	20048.1	20336.4	15393.3
57.5°	6292.7	6159.0	6919.5	7842.9	9343.0	11407.1	13182.9	16066.1	19709.7	19705.5	15063.2
60°	3827.4	3693.7	4278.7	4821.9	5661.8	7023.9	8908.4	12794.4	16663.6	17014.6	12196.8
62.5°	2277.2	2360.8	2937.4	3267.5	3539.1	3681.2	4608.8	7604.7	11118.8	11369.5	7567.1
65°	1516.8	1546.0	1980.6	2523.8	2644.9	2105.9	1876.1	3079.5	4821.9	4667.3	3121.3
67.5°	936.0	1002.8	1328.7	1897.0	2101.8	1537.7	890.0	1149.1	1328.7	1328.7	902.5
70°	568.3	601.7	885.8	1291.1	1441.6	990.3	647.7	647.7	639.3	626.8	539.0
72.5°	271.6	292.5	451.3	664.4	676.9	522.3	501.4	547.4	534.8	530.7	447.1
75°	117.0	125.4	158.8	208.9	238.2	221.5	305.0	392.8	405.3	392.8	321.7
77.5°	37.6	41.8	58.5	75.2	79.4	96.1	129.5	163.0	188.0	175.5	158.8
80°	4.2	8.4	16.7	37.6	58.5	75.2	96.1	108.6	121.2	121.2	112.8
82.5°	4.2	4.2	16.7	33.4	54.3	71.0	91.9	104.5	121.2	125.4	117.0
85°	0.0	4.2	12.5	29.2	46.0	46.0	41.8	41.8	29.2	29.2	29.2
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°	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1
2.5°	3806.6	3798.2	3685.4	3614.3	3576.7	3501.5	3455.6	3422.1	3397.1	3367.8	3372.0
5°	3856.7	3827.4	3639.4	3509.9	3355.3	3271.7	3200.7	3142.2	3104.6	3096.2	3079.5
7.5°	3998.8	3844.2	3560.0	3326.0	3129.6	3046.1	2983.4	2945.8	2962.5	2924.9	2954.2
10°	4107.4	3877.6	3463.9	3125.5	2929.1	2866.4	2833.0	2862.2	2904.0	2887.3	2866.4
12.5°	4241.1	3911.0	3309.3	2933.3	2749.4	2703.4	2761.9	2816.3	2899.8	2933.3	2891.5
15°	4391.5	3948.6	3112.9	2711.8	2594.8	2632.4	2732.7	2828.8	2912.4	2954.2	2979.2
17.5°	4575.4	3936.1	2920.7	2536.3	2448.6	2557.2	2678.4	2766.1	2891.5	2954.2	2937.4
20°	4746.7	3894.3	2707.6	2360.8	2365.0	2465.3	2565.6	2707.6	2774.5	2858.0	2828.8
22.5°	4909.7	3819.1	2486.2	2239.6	2239.6	2394.2	2444.4	2536.3	2594.8	2636.6	2632.4
25°	5139.5	3677.0	2302.3	2122.6	2172.8	2273.1	2314.9	2344.1	2319.0	2352.5	2356.6
27.5°	5302.4	3530.8	2151.9	2018.2	2110.1	2185.3	2172.8	2156.1	2097.6	2051.6	2080.9
30°	5477.9	3359.5	2022.4	1947.1	1997.3	2064.1	2014.0	1963.9	1871.9	1796.7	1800.9
32.5°	5728.6	3280.1	1909.5	1863.6	1930.4	1938.8	1884.5	1809.3	1717.3	1646.3	1642.1
35°	6196.6	3229.9	1813.4	1809.3	1821.8	1826.0	1771.7	1679.7	1642.1	1583.6	1604.5
37.5°	6664.6	3204.9	1746.6	1729.9	1725.7	1729.9	1667.2	1579.4	1650.5	1646.3	1654.7
40°	7262.1	3317.7	1650.5	1629.6	1633.8	1633.8	1554.4	1529.3	1654.7	1667.2	1671.4
42.5°	7868.0	3459.7	1587.8	1520.9	1537.7	1537.7	1495.9	1466.6	1554.4	1470.8	1458.3
45°	8394.5	3668.7	1520.9	1412.3	1454.1	1475.0	1462.5	1412.3	1358.0	1215.9	1215.9
47.5°	8565.8	3852.5	1441.6	1307.8	1341.3	1433.2	1395.6	1291.1	1195.0	1078.0	1069.7
50°	8866.6	4053.1	1378.9	1186.7	1257.7	1370.5	1332.9	1228.5	1119.8	1036.3	1040.4
52.5°	9175.8	4282.9	1261.9	1044.6	1132.4	1320.4	1320.4	1203.4	1036.3	977.8	969.4
55°	9639.6	4274.5	1053.0	856.6	1011.2	1245.2	1266.1	1078.0	927.6	881.6	881.6
56°	9706.5	4082.3	948.5	802.3	956.9	1224.3	1228.5	1044.6	885.8	835.7	835.7
57.5°	9205.1	3685.4	831.5	735.4	890.0	1186.7	1190.9	1015.4	852.4	781.4	773.0
60°	7082.4	2494.5	693.6	656.0	806.4	1069.7	1090.6	923.4	747.9	693.6	689.4
62.5°	3998.8	1383.1	610.1	593.3	693.6	910.9	973.6	806.4	635.1	605.9	614.2
65°	1826.0	760.5	513.9	480.5	559.9	702.0	785.5	664.4	522.3	488.9	488.9
67.5°	668.5	518.1	438.7	380.2	392.8	455.4	509.8	430.4	346.8	296.7	309.2
70°	476.3	434.6	384.4	330.1	305.0	296.7	292.5	242.3	171.3	133.7	142.1
72.5°	384.4	359.3	321.7	280.0	238.2	200.6	171.3	125.4	79.4	54.3	50.1
75°	275.8	263.2	234.0	200.6	167.1	142.1	117.0	79.4	41.8	20.9	20.9
77.5°	142.1	142.1	137.9	125.4	104.5	83.6	66.9	46.0	25.1	8.4	8.4
80°	108.6	117.0	121.2	108.6	96.1	75.2	54.3	33.4	16.7	4.2	4.2
82.5°	104.5	121.2	129.5	112.8	96.1	71.0	54.3	33.4	16.7	4.2	4.2
85°	25.1	25.1	37.6	41.8	54.3	58.5	46.0	29.2	12.5	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)