

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: P457160

Luminaire Tested: **GALN-SA8C-727-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-727-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39054 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

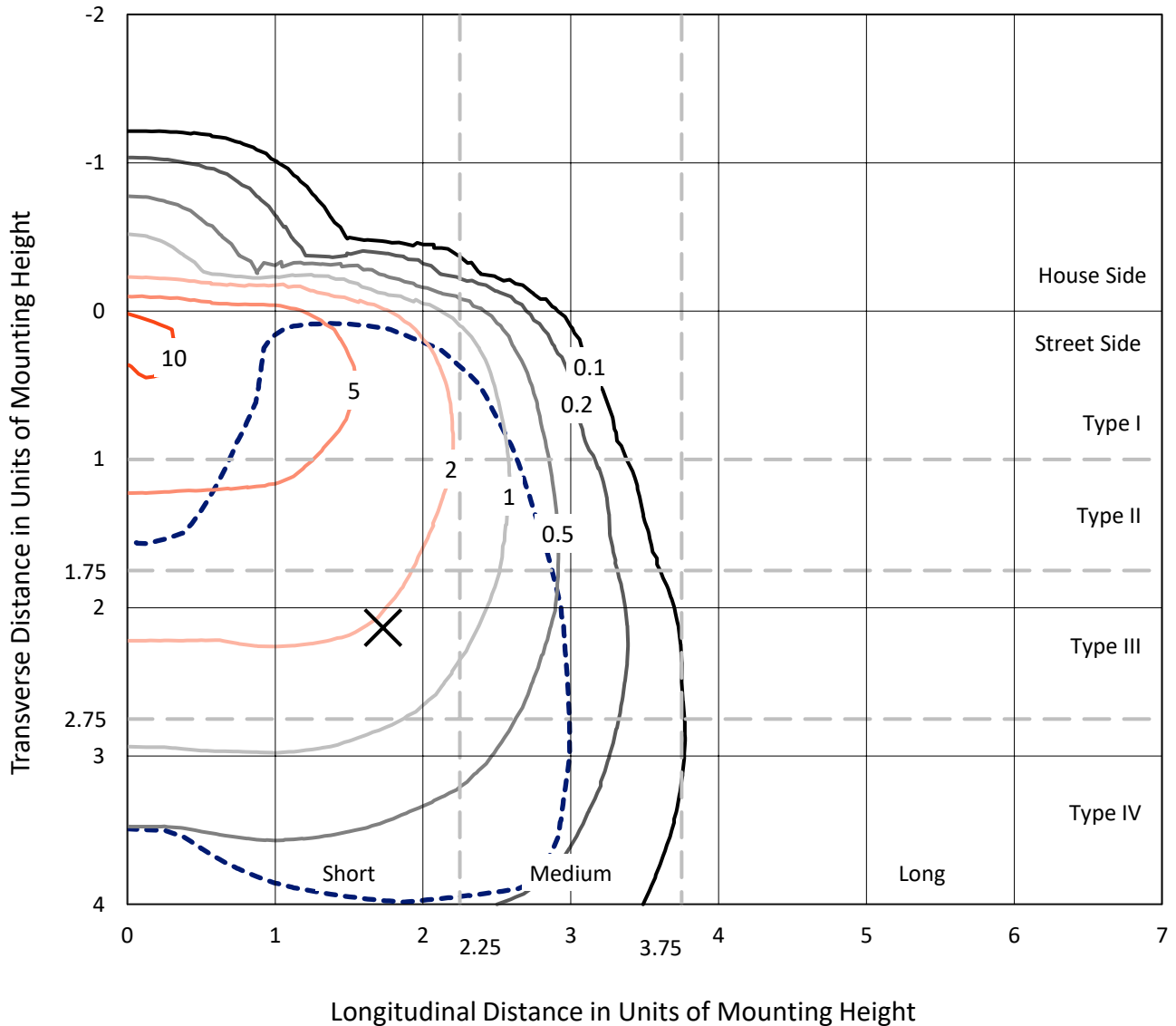
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

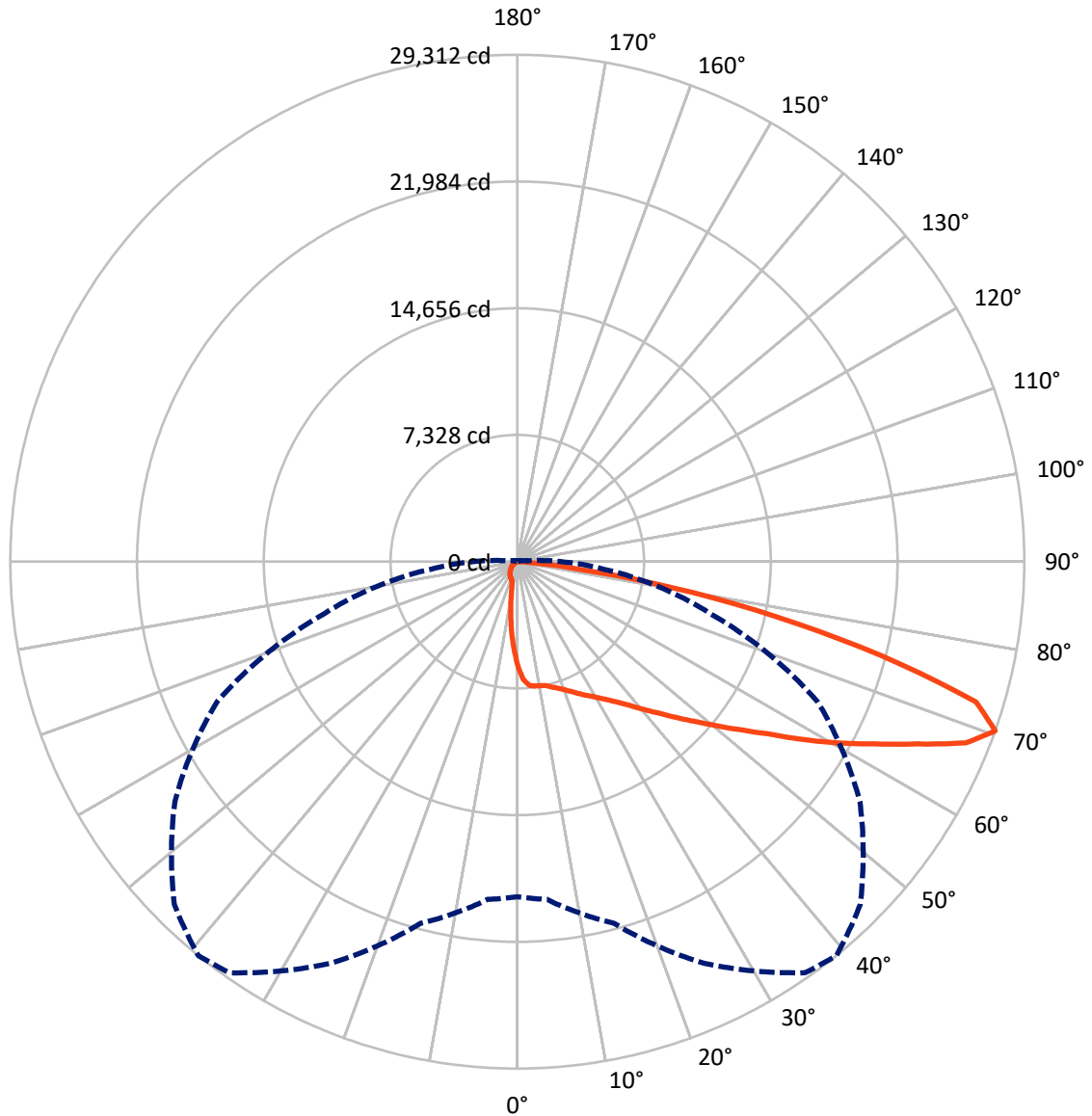
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2546.5	0.0	2546.5
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	36507.5	0.0	36507.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	39054.0	0.0	39054.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.8	1.3
10°-20°	1350.7	3.5
20°-30°	2262.8	5.8
30°-40°	3509.3	9.0
40°-50°	5561.2	14.2
50°-60°	8151.9	20.9
60°-70°	10448.7	26.8
70°-80°	6565.6	16.8
80°-90°	684.0	1.8
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°	39054.0	100.0
0°-180°	39054.0	100.0

**Coefficient of Utilization**



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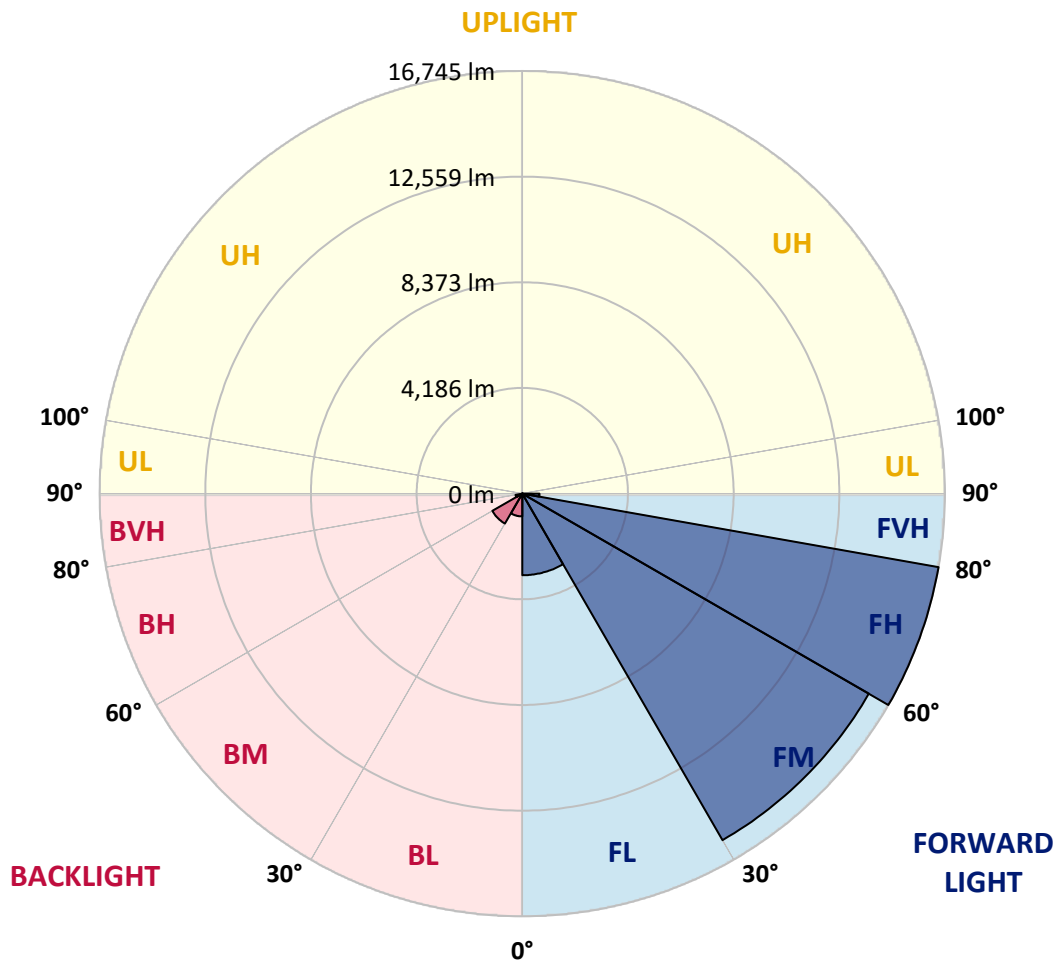
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3231.5	8.3			
FM	(30°-60°)	15851.9	40.6			
FH	(60°-80°)	16745.1	42.9			G5
FVH	(80°-90°)	679.0	1.7			G4/750
BL	(0°-30°)	901.7	2.3	B2/1000		
BM	(30°-60°)	1370.4	3.5	B2/2500		
BH	(60°-80°)	269.3	0.7	B1/500		G1/500
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8
2.5°	7041.2	7017.5	6986.0	6949.3	6844.3	6826.0	6763.0	6629.1	6469.0	6337.8	6156.7
5°	7374.5	7387.6	7364.0	7298.3	7222.2	7177.6	7098.9	6891.6	6684.2	6419.2	6122.6
7.5°	7450.6	7476.8	7447.9	7384.9	7311.5	7264.2	7201.2	7022.8	6781.3	6479.5	6072.8
10°	7442.7	7474.2	7455.8	7398.1	7337.7	7293.1	7224.9	7083.1	6888.9	6571.4	6088.5
12.5°	7429.6	7471.6	7468.9	7440.1	7390.2	7356.1	7314.1	7188.1	7007.0	6705.2	6175.1
15°	7392.8	7445.3	7492.5	7516.2	7518.8	7518.8	7466.3	7332.5	7159.3	6881.1	6288.0
17.5°	7408.6	7468.9	7587.0	7655.3	7702.5	7697.2	7642.1	7497.8	7306.2	7062.2	6406.1
20°	7505.7	7587.0	7752.4	7888.8	7936.1	7920.3	7846.8	7678.9	7461.1	7217.0	6521.5
22.5°	7744.5	7818.0	8025.3	8185.4	8219.5	8177.5	8072.5	7844.2	7647.4	7384.9	6660.6
25°	8101.4	8188.0	8379.6	8500.3	8500.3	8476.7	8329.7	8062.0	7857.3	7618.5	6841.7
27.5°	8534.4	8607.9	8796.9	8904.5	8841.5	8773.2	8626.3	8303.5	8106.6	7912.4	7059.5
30°	8972.7	9019.9	9219.4	9266.6	9201.0	9114.4	8956.9	8634.1	8460.9	8311.3	7374.5
32.5°	9387.3	9489.7	9655.0	9644.5	9555.3	9513.3	9369.0	9025.2	8928.1	8912.3	7815.3
35°	9802.0	9880.7	10027.7	10064.4	9985.7	9977.8	9872.8	9618.3	9620.9	9723.3	8502.9
37.5°	10158.9	10229.8	10403.0	10484.3	10500.1	10539.4	10497.4	10329.5	10568.3	10849.1	9413.6
40°	10458.1	10557.8	10778.2	10920.0	11082.7	11227.0	11234.9	11271.6	11751.9	12234.8	10602.4
42.5°	10691.6	10830.7	11150.9	11413.3	11786.0	11969.7	12116.7	12318.7	13127.0	13848.7	12003.8
45°	10996.1	11156.2	11555.1	11967.1	12549.7	12851.5	13056.2	13596.8	14743.7	15727.8	13442.0
47.5°	11499.9	11583.9	11990.7	12591.7	13358.0	13788.4	14187.3	15006.1	16478.4	17360.1	14638.7
50°	12148.2	12203.3	12510.3	13344.9	14336.9	14903.7	15630.7	16593.8	18278.7	18714.3	15315.8
52.5°	12864.6	12883.0	13113.9	14174.2	15433.9	16147.7	16961.2	18150.1	19745.7	19680.1	15764.5
55°	13696.5	13670.3	13867.1	15074.3	16732.9	17549.1	18496.5	19743.1	21018.5	20365.0	16021.7
57.5°	14649.2	14578.3	14769.9	16268.4	18396.8	19373.0	20336.2	21118.2	22005.3	20939.8	16145.1
60°	15646.4	15504.7	15733.0	17609.5	20357.2	21283.6	22084.0	22293.9	23044.5	21396.4	15932.5
62.5°	16441.6	16444.2	16869.4	19037.1	22372.7	23183.6	23608.7	23797.7	23939.4	21296.7	14814.5
65°	17682.9	17724.9	18404.6	21018.5	24705.7	25409.1	25700.4	25086.3	23978.8	20058.0	13134.9
67.5°	18963.6	19097.5	20341.4	23747.8	27400.9	27967.8	27592.5	25335.6	22908.0	17231.5	9959.4
70°	19380.9	19601.3	21651.0	25626.9	29017.5	29311.5	28041.3	24173.0	19150.0	11520.9	5012.5
72.5°	17759.0	18116.0	20897.8	24941.9	27986.2	27731.6	25088.9	20273.2	12174.4	4374.8	1530.0
75°	12523.4	12680.9	17368.0	20690.5	22509.1	21787.4	19084.3	13069.3	5007.3	1228.2	524.9
77.5°	6466.4	6390.3	10329.5	13728.0	16053.2	15305.3	12497.2	6765.6	1897.4	511.8	325.4
80°	3343.4	3398.5	4469.3	7193.4	9799.4	9017.3	6663.2	3136.1	1010.4	283.4	249.3
82.5°	1873.8	1758.3	2569.2	3141.4	4582.1	3592.7	2556.1	2220.2	440.9	170.6	236.2
85°	341.2	356.9	1409.3	1698.0	1590.4	1010.4	824.0	1482.8	128.6	94.5	165.3
87.5°	5.2	5.2	272.9	488.1	309.7	141.7	259.8	212.6	26.2	36.7	28.9
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°	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8	6093.8
2.5°	6064.9	5965.2	5778.8	5595.1	5361.6	5170.0	5041.4	4907.6	4771.1	4781.6	4813.1
5°	5959.9	5786.7	5419.3	5030.9	4658.2	4322.3	3991.7	3695.1	3574.4	3464.2	3469.4
7.5°	5854.9	5610.9	5072.9	4464.0	3899.8	3327.7	2913.0	2571.9	2390.8	2254.3	2215.0
10°	5807.7	5484.9	4755.3	3918.2	3117.7	2493.1	1960.4	1682.2	1467.0	1398.8	1417.2
12.5°	5828.7	5421.9	4469.3	3424.8	2472.1	1737.3	1364.7	1223.0	1175.7	1167.8	1162.6
15°	5868.1	5377.3	4188.5	2878.9	1816.1	1291.2	1146.8	1120.6	1115.4	1110.1	1112.7
17.5°	5920.6	5337.9	3889.3	2367.2	1393.5	1128.5	1086.5	1073.4	1070.7	1070.7	1070.7
20°	5973.0	5293.3	3556.0	1910.5	1162.6	1065.5	1039.2	1031.4	1028.7	1028.7	1026.1
22.5°	6033.4	5254.0	3217.5	1501.1	1070.7	1020.9	997.3	992.0	989.4	986.8	986.8
25°	6120.0	5204.1	2857.9	1228.2	1013.0	978.9	955.3	950.0	947.4	936.9	939.5
27.5°	6235.5	5167.4	2487.9	1060.2	960.5	926.4	910.7	902.8	897.5	889.7	892.3
30°	6392.9	5135.9	2094.2	968.4	900.2	871.3	855.5	850.3	845.0	837.2	837.2
32.5°	6665.9	5149.0	1679.6	894.9	845.0	810.9	795.2	789.9	784.7	776.8	776.8
35°	7075.3	5225.1	1343.7	831.9	779.4	745.3	729.6	729.6	721.7	711.2	708.6
37.5°	7744.5	5419.3	1078.6	771.6	716.5	685.0	666.6	661.3	653.5	637.7	635.1
40°	8534.4	5721.1	908.0	711.2	658.7	627.2	611.5	595.7	574.7	559.0	556.4
42.5°	9526.4	6030.8	787.3	650.8	603.6	574.7	556.4	530.1	498.6	477.6	475.0
45°	10560.4	6314.2	706.0	595.7	551.1	527.5	506.5	464.5	425.1	398.9	396.3
47.5°	11332.0	6366.7	640.3	543.2	506.5	482.9	454.0	401.5	349.0	325.4	317.5
50°	11696.8	6112.1	572.1	490.8	461.9	435.6	398.9	338.5	280.8	251.9	246.7
52.5°	11825.4	5671.2	517.0	443.5	417.3	385.8	341.2	272.9	220.4	191.6	189.0
55°	11772.9	5114.9	467.1	398.9	364.8	328.0	283.4	217.8	162.7	139.1	133.8
57.5°	11497.3	4406.3	417.3	354.3	312.3	275.6	225.7	162.7	110.2	89.2	86.6
60°	10754.6	3440.5	367.4	304.4	265.1	225.7	178.5	115.5	68.2	49.9	49.9
62.5°	9500.2	2553.5	320.2	254.6	223.1	181.1	126.0	73.5	36.7	26.2	23.6
65°	7938.7	1884.3	267.7	215.2	186.3	141.7	89.2	44.6	18.4	7.9	5.2
67.5°	5540.0	1162.6	223.1	175.8	152.2	102.4	55.1	18.4	7.9	0.0	0.0
70°	2516.8	553.7	170.6	133.8	115.5	73.5	28.9	10.5	5.2	0.0	0.0
72.5°	782.1	291.3	120.7	97.1	78.7	47.2	15.7	7.9	5.2	0.0	0.0
75°	362.2	186.3	76.1	52.5	44.6	23.6	10.5	5.2	2.6	0.0	0.0
77.5°	270.3	144.3	44.6	28.9	23.6	15.7	7.9	5.2	2.6	0.0	0.0
80°	236.2	73.5	26.2	18.4	13.1	10.5	5.2	2.6	0.0	0.0	0.0
82.5°	212.6	36.7	15.7	10.5	7.9	5.2	2.6	2.6	0.0	0.0	0.0
85°	115.5	21.0	10.5	7.9	5.2	2.6	2.6	0.0	0.0	0.0	0.0
87.5°	21.0	10.5	7.9	5.2	5.2	2.6	2.6	2.6	0.0	0.0	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)