

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: P454377

Luminaire Tested: **GALN-SA5C-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28821 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

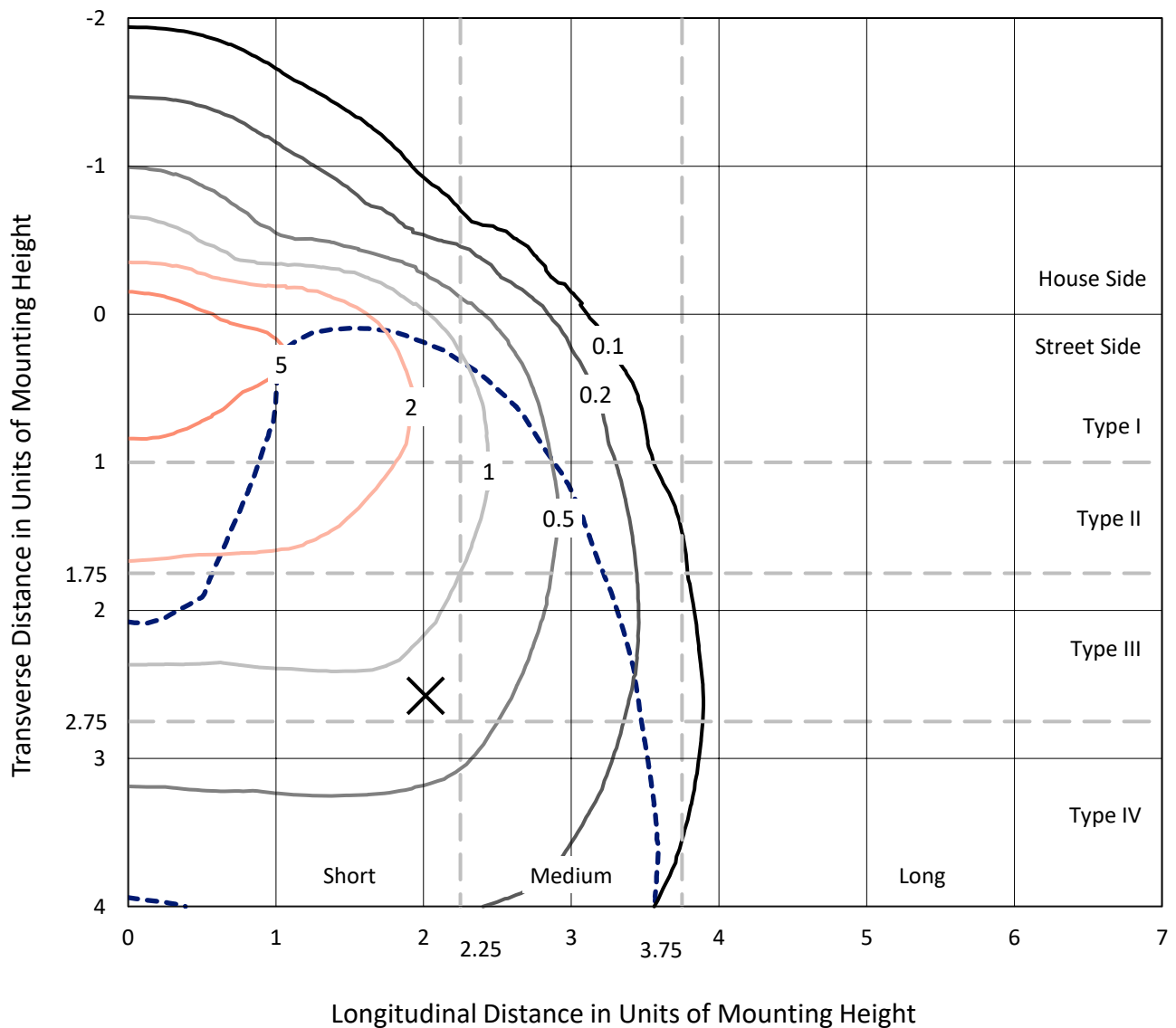
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

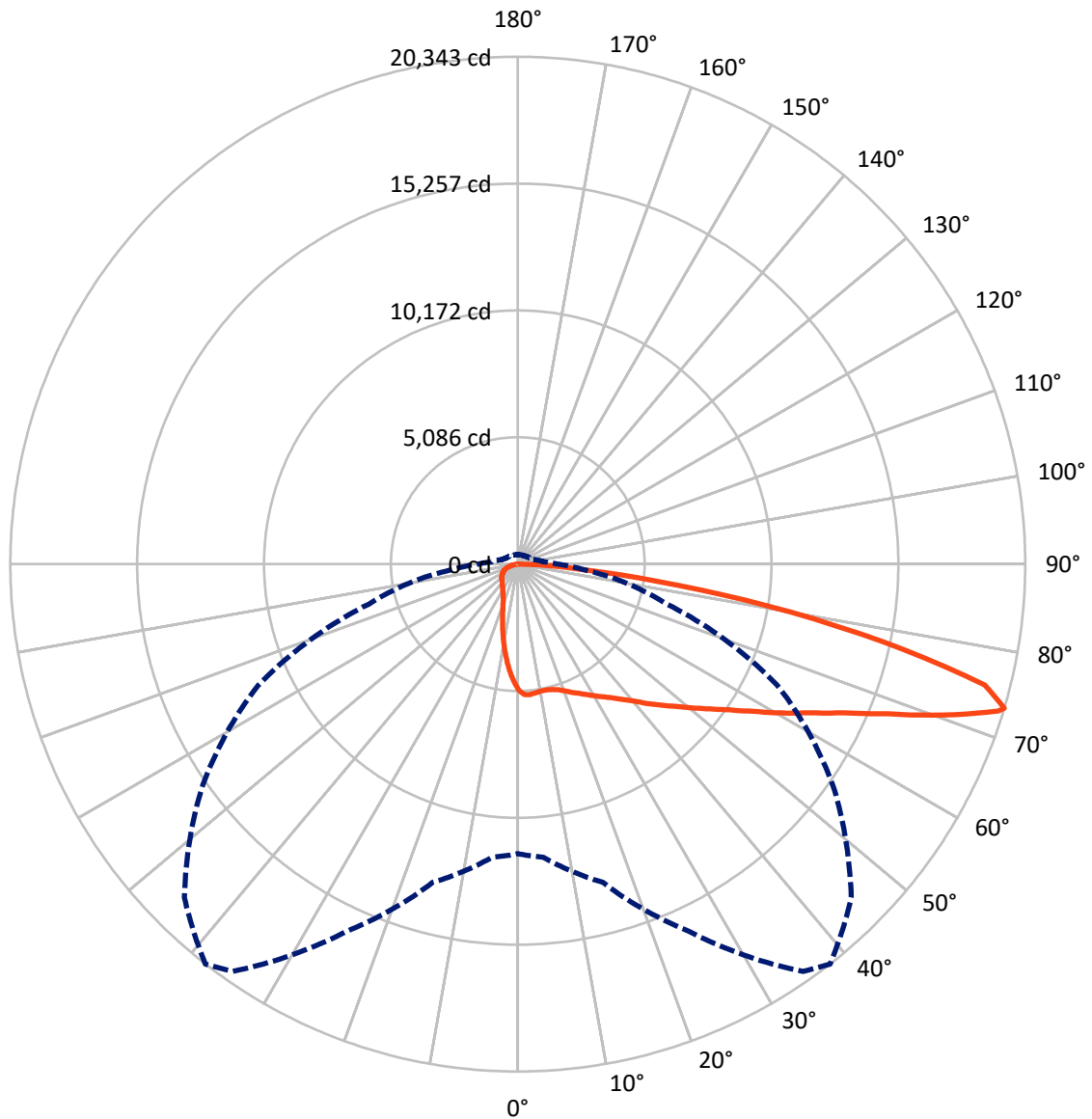
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3874.4	0.0	3874.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24946.6	0.0	24946.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	28821.0	0.0	28821.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.0	1.5
10°-20°	1133.4	3.9
20°-30°	1764.9	6.1
30°-40°	2588.7	9.0
40°-50°	3840.0	13.3
50°-60°	5440.5	18.9
60°-70°	6901.4	23.9
70°-80°	5744.9	19.9
80°-90°	965.2	3.3
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°	28821.0	100.0
0°-180°	28821.0	100.0



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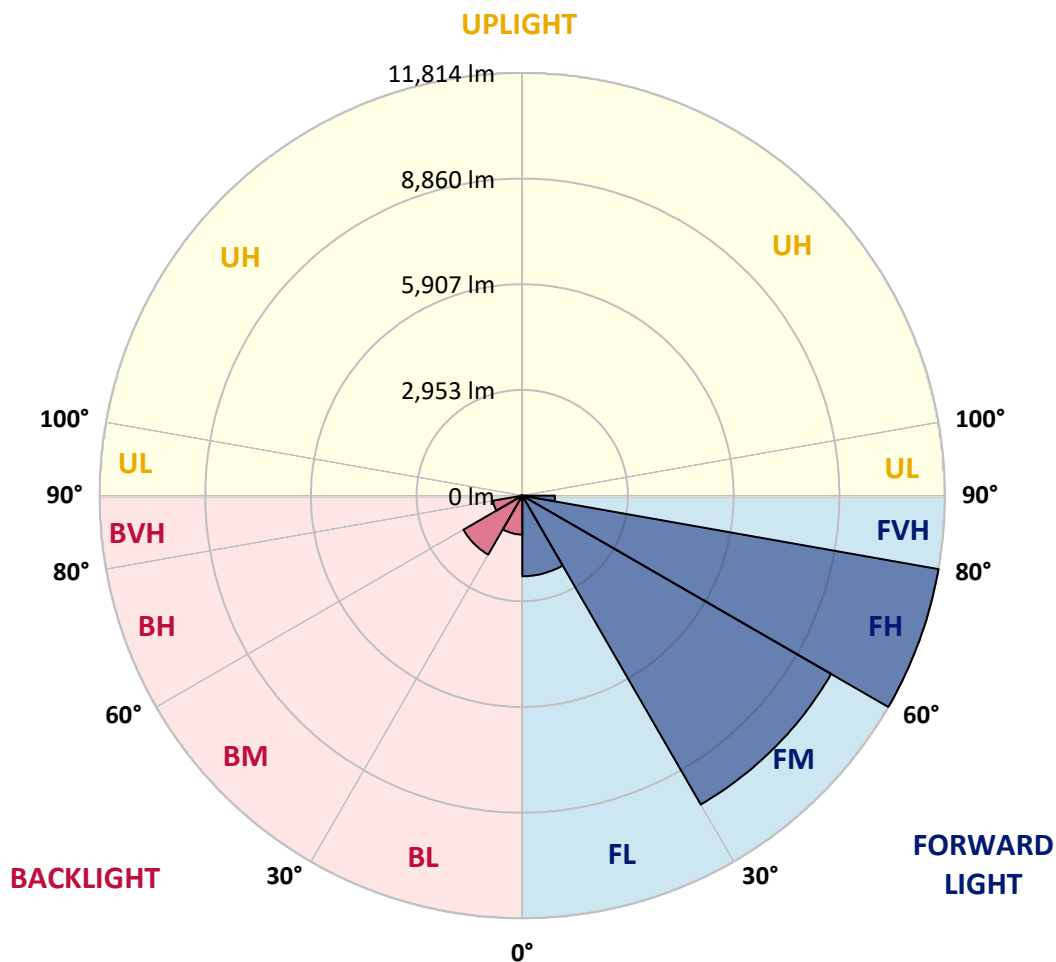
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2253.0	7.8			
FM	(30°-60°)	9967.1	34.6			
FH	(60°-80°)	11813.6	41.0			G4/12000
FVH	(80°-90°)	912.9	3.2			G5
BL	(0°-30°)	1087.2	3.8	B3/2500		
BM	(30°-60°)	1902.1	6.6	B2/2500		
BH	(60°-80°)	832.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	52.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4
2.5°	5266.8	5292.8	5279.8	5261.9	5250.5	5239.1	5222.9	5175.7	5138.2	5097.5	5034.1
5°	5305.9	5322.1	5310.8	5288.0	5261.9	5250.5	5219.6	5157.8	5097.5	5029.2	4934.8
7.5°	5283.1	5289.6	5276.6	5248.9	5226.1	5205.0	5169.2	5100.8	5027.6	4944.5	4820.9
10°	5201.7	5226.1	5226.1	5203.3	5180.5	5169.2	5133.3	5068.2	5001.5	4907.1	4760.6
12.5°	5135.0	5161.0	5182.2	5175.7	5174.0	5174.0	5146.4	5097.5	5019.4	4929.9	4755.8
15°	5089.4	5120.3	5165.9	5191.9	5208.2	5213.1	5201.7	5159.4	5079.6	4975.5	4775.3
17.5°	5079.6	5117.1	5200.1	5257.0	5299.4	5297.7	5294.5	5235.9	5148.0	5040.6	4799.7
20°	5123.6	5172.4	5288.0	5377.5	5439.3	5427.9	5410.0	5333.5	5231.0	5110.6	4822.5
22.5°	5255.4	5305.9	5432.8	5530.5	5590.7	5590.7	5537.0	5436.1	5327.0	5191.9	4853.4
25°	5444.2	5499.5	5634.6	5733.9	5761.6	5740.4	5686.7	5564.7	5439.3	5309.1	4918.5
27.5°	5675.3	5742.1	5867.4	5950.4	5942.2	5926.0	5870.6	5714.4	5589.1	5470.3	5029.2
30°	5963.4	6012.2	6142.4	6162.0	6132.7	6129.4	6051.3	5895.0	5777.9	5686.7	5187.1
32.5°	6235.2	6279.2	6383.3	6391.5	6339.4	6345.9	6272.6	6129.4	6062.7	6030.1	5452.3
35°	6523.3	6546.1	6635.6	6625.8	6591.6	6586.8	6557.5	6420.8	6441.9	6500.5	5828.3
37.5°	6764.2	6809.7	6860.2	6868.3	6866.7	6883.0	6902.5	6837.4	6959.5	7143.4	6321.5
40°	6985.5	7024.6	7099.4	7125.5	7189.0	7221.5	7288.2	7289.9	7571.4	7874.2	6928.6
42.5°	7135.3	7202.0	7342.0	7389.2	7543.8	7641.4	7740.7	7846.5	8255.0	8644.0	7644.7
45°	7265.5	7353.3	7586.1	7732.6	7942.5	8061.3	8271.3	8492.6	9080.2	9589.6	8372.2
47.5°	7462.4	7540.5	7807.4	8066.2	8383.6	8520.3	8834.4	9164.8	9933.0	10491.3	9068.8
50°	7735.8	7783.0	8054.8	8476.4	8881.6	9057.4	9472.4	9949.3	10844.5	11381.6	9680.8
52.5°	8085.8	8105.3	8321.8	8883.3	9417.1	9635.2	10185.3	10741.9	11642.0	12154.7	10165.8
55°	8499.2	8466.6	8635.9	9314.6	10029.1	10313.9	10904.7	11544.3	12538.8	12779.7	10519.0
57.5°	8907.7	8857.2	8992.3	9838.6	10784.3	11127.7	11816.1	12371.1	13339.5	13364.0	10766.4
60°	9340.6	9303.2	9464.3	10453.9	11710.3	12117.2	12753.6	13228.9	14114.3	13770.8	10805.4
62.5°	9784.9	9724.7	9954.2	11145.6	12753.6	13123.1	13739.9	14140.3	14874.3	13922.2	10429.4
65°	10216.2	10188.6	10543.4	11967.5	13941.7	14361.7	14960.6	15232.4	15483.0	13694.3	9496.9
67.5°	10675.2	10730.5	11296.9	13064.5	15491.2	16018.5	16664.7	16409.1	15657.2	12615.3	7997.9
70°	11375.1	11410.9	12286.5	14501.6	17488.2	18124.6	18437.1	16827.4	14817.4	10566.2	6012.2
72.5°	11676.2	11834.0	13170.3	16010.4	19757.0	20146.0	19032.8	15894.8	12343.5	7177.6	3159.1
73°	11609.4	11798.2	13211.0	16239.9	19934.4	20343.0	18905.8	15414.7	11474.3	6181.5	2708.3
75°	10777.7	11010.5	12682.0	16047.8	19589.4	19345.3	16864.9	13137.7	7753.7	2810.8	1233.7
77.5°	8504.0	8570.8	10048.6	12958.7	15426.1	14973.6	12621.8	8211.1	3167.2	1044.9	699.9
80°	4265.9	4511.6	5663.9	7423.3	10315.5	10167.4	7966.9	3883.4	1320.0	613.6	463.9
82.5°	2052.4	2226.5	2758.7	3619.7	5699.7	5564.7	3945.2	2122.3	838.2	358.1	273.4
85°	1321.6	1451.8	1756.1	1726.8	2343.7	2237.9	1772.4	1606.4	496.4	187.2	190.4
87.5°	872.4	955.4	1145.8	916.3	852.8	771.5	782.9	904.9	97.7	71.6	26.0
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°	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4	5063.4
2.5°	5008.0	4986.9	4916.9	4848.5	4783.4	4721.6	4680.9	4627.2	4591.4	4601.1	4615.8
5°	4882.7	4835.5	4711.8	4591.4	4477.4	4342.3	4233.3	4145.4	4078.7	4054.3	4049.4
7.5°	4750.9	4671.1	4493.7	4287.0	4093.3	3925.7	3732.0	3636.0	3523.7	3484.6	3471.6
10°	4671.1	4563.7	4314.7	4026.6	3735.3	3457.0	3247.0	3076.1	2921.5	2892.2	2877.5
12.5°	4648.3	4506.7	4171.5	3800.4	3413.0	3071.2	2760.4	2535.7	2386.0	2351.8	2301.4
15°	4635.3	4459.5	4038.0	3572.5	3081.0	2664.3	2337.2	2075.1	1938.4	1847.3	1848.9
17.5°	4623.9	4405.8	3888.3	3323.5	2794.5	2314.4	1953.1	1717.1	1591.8	1542.9	1538.1
20°	4607.6	4342.3	3715.7	3061.5	2467.4	1995.4	1668.3	1492.5	1407.8	1367.2	1365.5
22.5°	4601.1	4280.5	3546.5	2794.5	2177.7	1749.6	1479.5	1355.8	1302.1	1274.4	1274.4
25°	4617.4	4236.6	3369.1	2540.6	1920.5	1539.7	1349.3	1264.6	1233.7	1219.0	1214.2
27.5°	4667.9	4217.0	3193.3	2286.7	1684.5	1396.5	1261.4	1202.8	1180.0	1168.6	1170.2
30°	4763.9	4215.4	3020.8	2036.1	1508.8	1287.4	1191.4	1150.7	1132.8	1126.3	1124.6
32.5°	4918.5	4251.2	2851.5	1829.4	1360.6	1196.3	1126.3	1097.0	1088.8	1084.0	1082.3
35°	5180.5	4352.1	2683.9	1640.6	1246.7	1114.9	1064.4	1049.8	1038.4	1043.3	1044.9
37.5°	5533.7	4526.3	2524.4	1492.5	1160.5	1054.7	1012.3	999.3	992.8	997.7	1002.6
40°	6007.4	4776.9	2390.9	1373.7	1098.6	1004.2	966.8	955.4	948.9	957.0	958.6
42.5°	6529.8	5066.6	2280.2	1280.9	1048.2	961.9	926.1	913.1	908.2	913.1	914.7
45°	7066.9	5403.5	2223.3	1214.2	1005.8	931.0	893.5	878.9	867.5	864.2	869.1
47.5°	7595.9	5696.5	2221.6	1173.5	971.7	903.3	862.6	846.3	831.7	823.5	821.9
50°	8027.2	5929.2	2260.7	1155.6	942.4	872.4	831.7	815.4	795.9	779.6	782.9
52.5°	8352.7	6080.6	2278.6	1147.4	926.1	839.8	799.1	784.5	761.7	740.5	740.5
55°	8562.6	6116.4	2234.6	1139.3	913.1	805.6	761.7	748.7	725.9	704.7	704.7
57.5°	8634.2	6005.7	2076.8	1119.8	900.0	776.3	724.3	712.9	695.0	673.8	670.6
60°	8468.2	5631.4	1800.1	1061.2	874.0	745.4	683.6	678.7	672.2	654.3	652.7
62.5°	7828.6	4837.1	1499.0	984.7	830.1	712.9	646.1	654.3	659.2	649.4	647.8
65°	6764.2	3927.3	1280.9	878.9	771.5	667.3	605.5	626.6	639.6	639.6	636.4
67.5°	5486.5	3015.9	1079.1	787.7	698.2	605.5	559.9	576.2	585.9	582.7	590.8
70°	3899.7	2042.6	878.9	683.6	605.5	535.5	501.3	501.3	494.8	491.5	491.5
72.5°	1891.2	1167.0	712.9	571.3	515.9	457.3	429.7	418.3	405.3	403.6	395.5
73°	1580.4	1046.5	680.3	550.1	494.8	446.0	415.0	397.1	389.0	382.5	380.9
75°	961.9	794.3	568.0	463.9	421.5	384.1	356.4	340.2	332.0	327.1	325.5
77.5°	633.1	592.4	441.1	354.8	322.3	299.5	288.1	271.8	266.9	260.4	260.4
80°	472.0	452.5	315.7	250.6	231.1	211.6	208.3	205.1	192.1	183.9	180.7
82.5°	304.4	322.3	214.8	167.6	146.5	130.2	131.8	136.7	123.7	112.3	109.0
85°	216.5	232.7	130.2	76.5	61.8	53.7	60.2	53.7	55.3	43.9	35.8
87.5°	35.8	61.8	22.8	9.8	4.9	3.3	0.0	0.0	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)