

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: P455535

Luminaire Tested: **GALN-SA6D-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38025 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

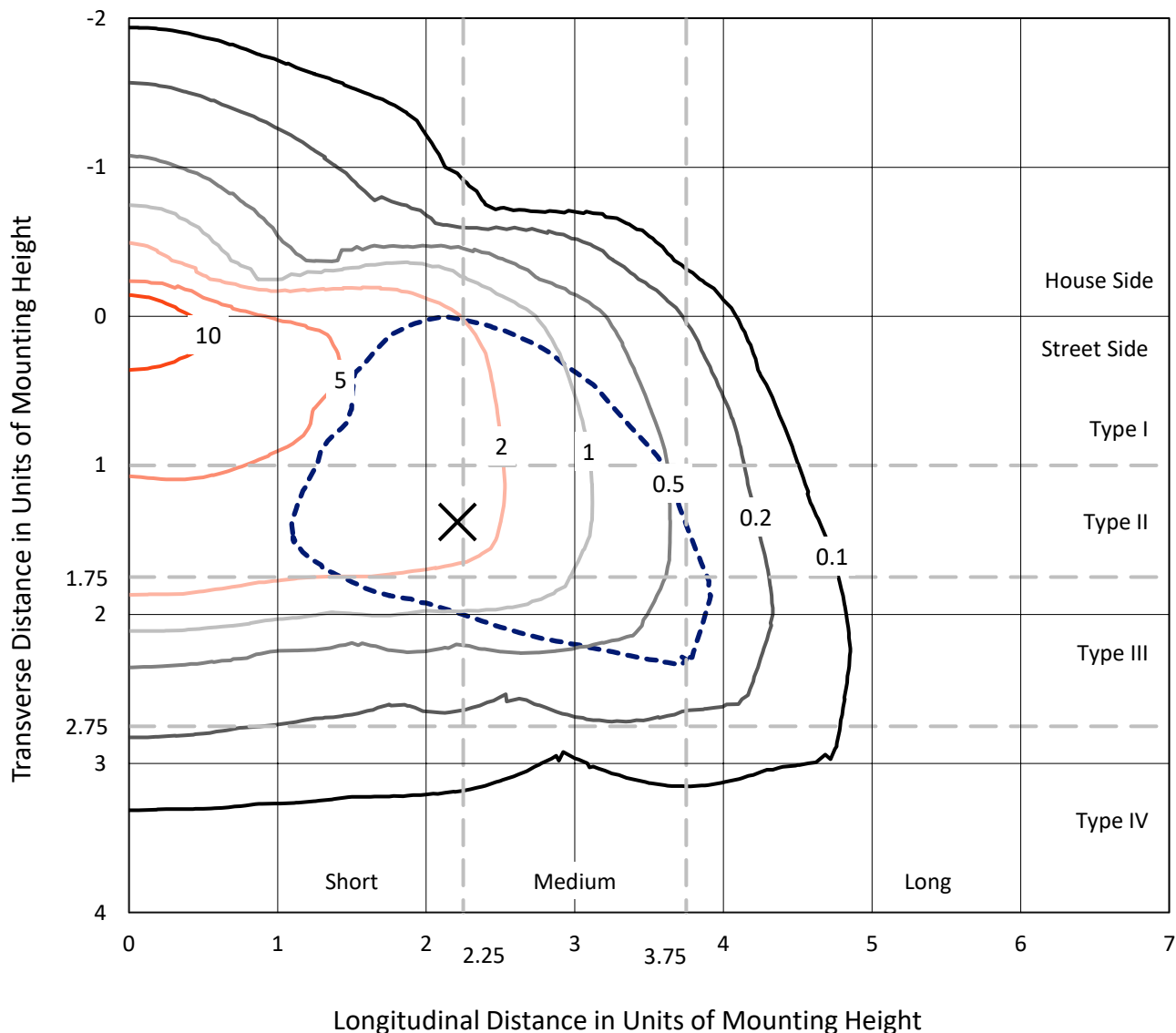
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

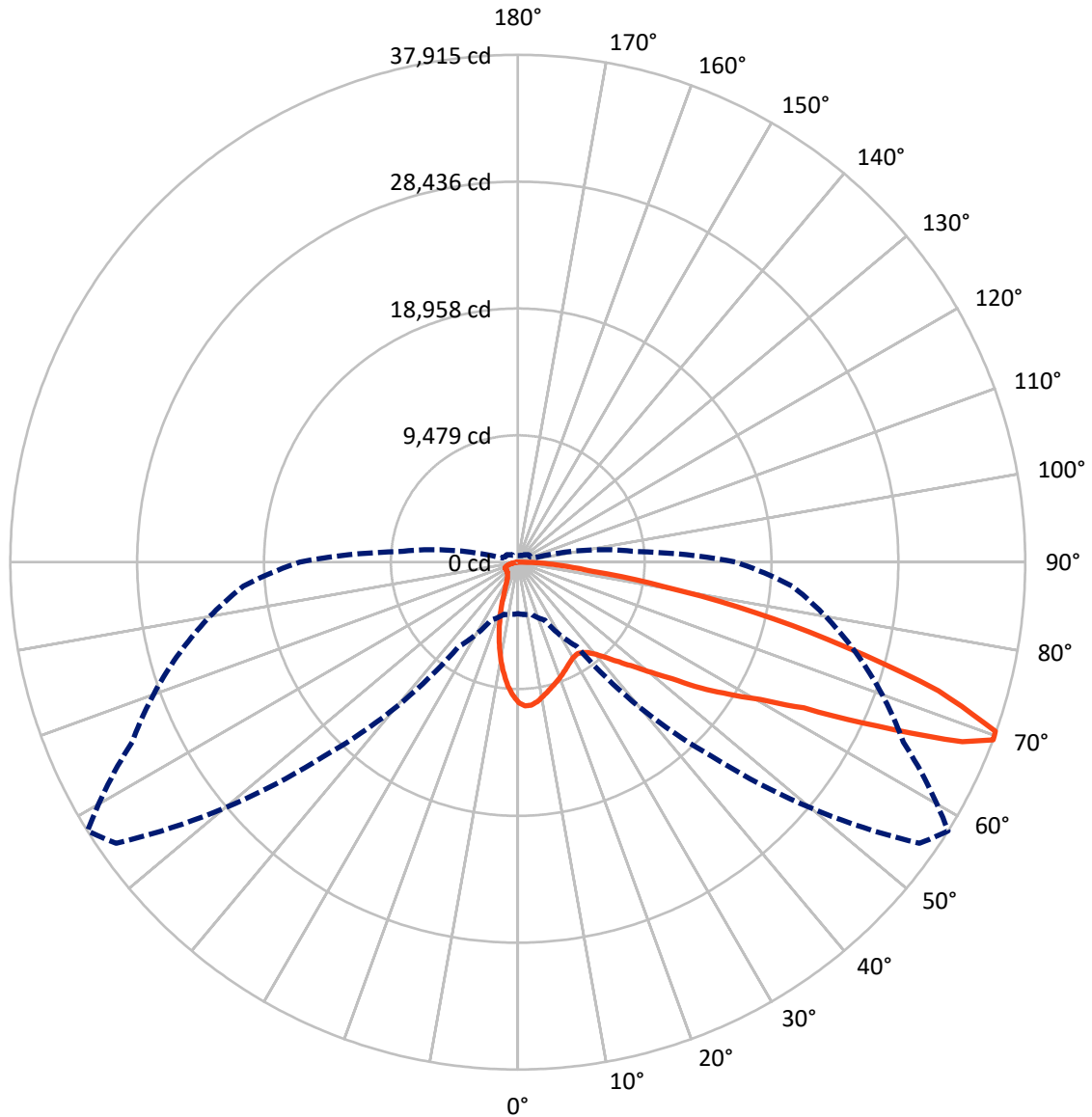
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5572.6	0.0	5572.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32452.4	0.0	32452.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	38025.0	0.0	38025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.4	2.3
10°-20°	1959.5	5.2
20°-30°	2531.7	6.7
30°-40°	3288.2	8.6
40°-50°	4780.6	12.6
50°-60°	7628.2	20.1
60°-70°	10190.3	26.8
70°-80°	5874.3	15.4
80°-90°	879.8	2.3
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°	38025.0	100.0
0°-180°	38025.0	100.0

Coefficient of Utilization



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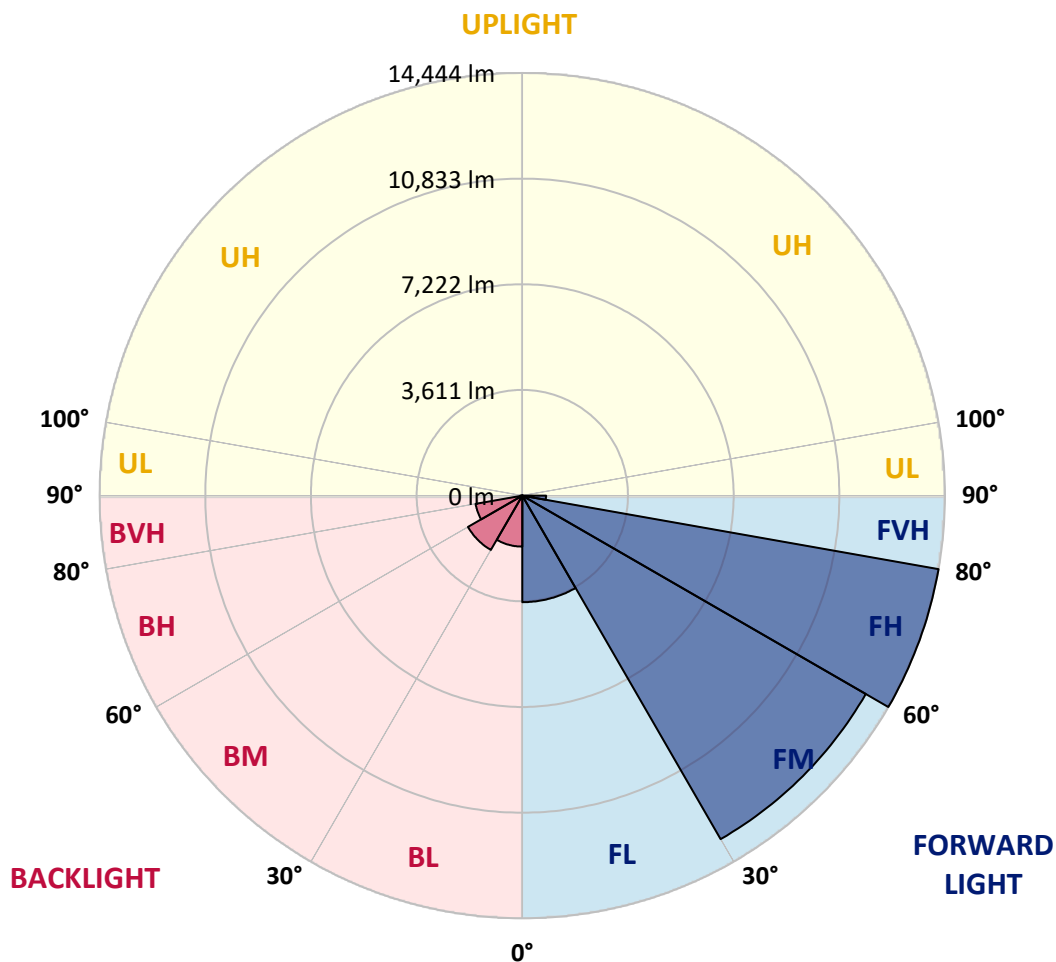
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3641.8	9.6			
FM	(30°-60°)	13553.9	35.6			
FH	(60°-80°)	14444.2	38.0			G5
FVH	(80°-90°)	812.4	2.1			G5
BL	(0°-30°)	1741.8	4.6	B3/2500		
BM	(30°-60°)	2143.0	5.6	B2/2500		
BH	(60°-80°)	1620.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	67.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9
2.5°	10898.1	10927.8	10919.3	10908.7	10891.7	10845.1	10768.7	10756.0	10707.2	10603.3	10474.0
5°	10730.6	10756.0	10758.1	10773.0	10794.2	10785.7	10730.6	10724.2	10652.1	10512.1	10295.8
7.5°	10155.9	10189.8	10264.0	10346.7	10420.9	10490.9	10507.9	10518.5	10474.0	10312.8	10024.4
10°	9509.1	9543.0	9576.9	9699.9	9882.3	10056.2	10200.4	10219.5	10230.1	10081.6	9729.6
12.5°	8792.3	8862.2	8934.4	9116.7	9360.6	9634.2	9888.7	9928.9	10001.0	9888.7	9475.1
15°	8183.6	8255.7	8359.7	8522.9	8817.7	9212.2	9570.6	9636.3	9778.4	9721.1	9237.6
17.5°	7761.6	7787.1	7859.2	8045.8	8363.9	8779.5	9258.8	9390.3	9617.2	9602.4	9034.0
20°	7428.7	7460.5	7505.0	7619.5	7950.4	8389.3	8968.3	9137.9	9445.4	9496.3	8832.6
22.5°	7288.7	7312.0	7305.7	7367.2	7592.0	8033.1	8673.5	8875.0	9292.7	9424.2	8645.9
25°	7297.2	7318.4	7286.6	7271.8	7405.4	7719.2	8366.0	8622.6	9169.7	9375.4	8476.3
27.5°	7439.3	7454.1	7394.8	7335.4	7346.0	7524.1	8111.5	8395.7	9065.8	9396.7	8334.2
30°	7630.1	7657.7	7619.5	7547.4	7469.0	7477.5	7948.2	8228.2	9017.1	9470.9	8266.3
32.5°	7876.1	7901.6	7884.6	7827.4	7725.6	7613.2	7908.0	8166.7	9021.3	9621.4	8251.5
35°	8134.9	8185.8	8213.3	8209.1	8126.4	7931.3	8067.0	8281.2	9123.1	9873.8	8338.4
37.5°	8427.5	8469.9	8588.7	8665.0	8588.7	8361.8	8425.4	8573.8	9347.9	10238.6	8529.3
40°	8711.7	8775.3	8949.2	9186.7	9157.0	8957.7	8972.5	9070.1	9744.4	10781.4	8902.5
42.5°	9008.6	9084.9	9388.2	9740.2	9810.2	9655.4	9695.7	9782.6	10308.5	11534.3	9543.0
45°	9390.3	9481.5	9854.7	10293.7	10569.4	10474.0	10588.5	10630.9	11063.5	12514.0	10387.0
47.5°	9882.3	9988.3	10448.5	10995.6	11385.8	11472.8	11672.1	11646.7	11998.7	13674.0	11481.3
50°	10711.5	10770.8	11205.6	11763.3	12299.8	12692.2	12908.5	12948.8	13158.7	14802.2	12704.9
52.5°	11697.6	11750.6	12064.5	12552.2	13224.5	14055.8	14590.2	14458.7	14509.6	16176.4	14136.3
55°	12806.7	12895.8	13095.1	13419.6	14291.1	15514.8	16587.8	16619.6	16055.5	17491.2	15508.4
57.5°	13665.6	13816.1	14157.5	14619.8	15724.7	17137.1	18579.1	18600.3	17879.3	18895.1	17022.6
60°	13232.9	13411.1	14191.5	15317.5	17605.7	19968.2	20958.5	20837.6	19654.3	20494.1	18869.7
62.5°	11366.8	11398.6	12533.1	14293.3	18184.7	23755.7	24500.0	23988.9	22023.1	22521.4	20746.4
65°	7356.6	7564.4	8463.6	10929.9	16282.4	25857.2	30705.1	29523.9	25344.0	24822.4	22317.9
67.5°	4644.3	4591.2	4964.5	6241.1	11199.2	24005.9	36000.4	35813.8	29687.2	26275.0	21942.5
69°	3851.1	3910.5	4037.7	4784.2	7706.5	20496.2	36626.0	37915.3	31793.0	26160.5	20578.9
70°	3492.7	3520.3	3653.9	4241.3	5946.3	17166.8	35599.6	37858.1	32620.0	25681.2	19590.7
72.5°	2771.7	2769.6	2998.6	3528.8	4444.9	9799.6	29231.2	32868.2	31695.4	23450.3	16187.0
75°	2105.8	2139.7	2392.1	2985.9	4095.0	5354.7	20398.7	25312.2	25314.4	18521.9	10100.7
77.5°	1518.4	1539.6	1834.4	2506.6	3857.5	4341.0	13587.1	18155.0	17067.1	8486.9	3174.6
80°	994.6	1007.3	1232.1	1984.9	3477.9	4095.0	8056.4	11112.3	8050.0	2252.1	1049.7
82.5°	545.0	608.6	752.8	1285.1	2790.8	3783.3	4896.6	5624.0	3019.8	1003.1	547.1
85°	273.6	290.5	424.1	750.7	1823.8	3130.1	3410.0	3225.5	1558.7	498.4	284.2
87.5°	80.6	101.8	176.0	290.5	740.1	1630.8	1898.0	1702.9	600.1	180.3	59.4
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°	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9	10507.9
2.5°	10420.9	10382.8	10213.1	10060.4	9920.5	9772.0	9646.9	9536.6	9547.2	9549.3	9436.9
5°	10183.4	10096.5	9774.1	9473.0	9218.5	8896.2	8620.5	8442.4	8353.3	8234.5	8276.9
7.5°	9861.1	9693.5	9246.1	8745.6	8276.9	7859.2	7405.4	7093.6	6894.3	6701.3	6726.7
10°	9528.1	9258.8	8607.8	7946.1	7339.6	6671.6	6092.7	5596.4	5227.4	5089.6	4998.4
12.5°	9186.7	8832.6	8005.5	7125.4	6287.8	5488.3	4667.6	4135.3	3728.1	3511.8	3539.4
15°	8875.0	8444.5	7377.8	6304.7	5216.8	4264.7	3446.1	2939.2	2655.1	2595.7	2629.6
17.5°	8586.6	8022.5	6790.4	5507.4	4237.1	3198.0	2589.3	2303.0	2188.5	2156.7	2154.6
20°	8289.7	7664.1	6130.8	4654.9	3301.9	2479.1	2124.9	1991.3	1970.1	1982.8	1984.9
22.5°	7988.5	7220.9	5452.2	3808.7	2629.6	2027.4	1857.7	1821.6	1838.6	1868.3	1872.5
25°	7710.7	6830.7	4799.1	3066.5	2099.5	1781.4	1698.7	1698.7	1736.8	1781.4	1783.5
27.5°	7481.7	6453.2	4148.0	2434.5	1758.0	1603.2	1575.7	1590.5	1643.5	1677.4	1679.6
30°	7293.0	6101.1	3533.0	1951.0	1546.0	1461.1	1454.8	1480.2	1518.4	1550.2	1552.3
32.5°	7150.9	5791.5	2958.3	1639.3	1399.6	1353.0	1350.9	1369.9	1391.2	1399.6	1408.1
35°	7095.7	5534.9	2432.4	1442.1	1302.1	1272.4	1272.4	1270.3	1278.8	1283.0	1287.2
37.5°	7140.3	5337.7	2025.2	1314.8	1230.0	1208.8	1196.1	1183.3	1179.1	1179.1	1181.2
40°	7329.0	5233.8	1722.0	1232.1	1179.1	1147.3	1124.0	1109.1	1094.3	1098.5	1102.7
42.5°	7729.8	5252.9	1516.3	1177.0	1134.6	1090.0	1056.1	1039.1	1028.5	1041.2	1039.1
45°	8368.1	5443.7	1384.8	1138.8	1090.0	1032.8	1001.0	984.0	984.0	1003.1	1009.4
47.5°	9260.9	5808.5	1314.8	1109.1	1056.1	988.2	956.4	943.7	947.9	979.7	981.9
50°	10351.0	6442.6	1302.1	1094.3	1039.1	956.4	920.4	907.6	918.2	952.2	956.4
52.5°	11553.4	7259.0	1363.6	1096.4	1024.3	937.3	890.7	871.6	882.2	909.8	918.2
55°	12978.5	8281.2	1522.6	1104.9	1003.1	926.7	869.5	827.1	839.8	858.9	861.0
57.5°	14433.2	9570.6	1802.6	1107.0	986.1	907.6	833.4	778.3	778.3	791.0	797.4
60°	16210.3	10974.4	2171.6	1109.1	988.2	880.1	784.6	723.1	714.7	721.0	723.1
62.5°	17974.7	12149.3	2233.1	1102.7	1009.4	852.5	731.6	668.0	653.2	651.0	646.8
65°	18753.0	11930.8	1830.1	1073.1	1032.8	835.5	689.2	615.0	589.5	581.1	581.1
67.5°	17484.9	10092.2	1376.3	1032.8	1017.9	818.6	648.9	570.5	540.8	523.8	523.8
69°	16293.1	8976.8	1236.3	1005.2	979.7	791.0	623.5	547.1	511.1	492.0	485.6
70°	15372.7	8209.1	1177.0	981.9	943.7	759.2	604.4	530.2	489.9	468.7	464.4
72.5°	12268.0	6440.5	1030.6	892.8	803.7	638.3	536.5	477.1	439.0	415.6	409.3
75°	7070.3	3490.6	854.6	776.2	646.8	496.2	453.8	415.6	386.0	364.8	358.4
77.5°	2175.8	1348.7	619.2	612.9	475.0	383.8	362.6	347.8	326.6	303.3	299.0
80°	916.1	687.1	419.9	413.5	316.0	267.2	260.8	258.7	250.2	231.2	224.8
82.5°	502.6	388.1	292.7	254.5	190.9	154.8	161.2	163.3	156.9	137.8	125.1
85°	246.0	212.1	142.1	114.5	86.9	55.1	53.0	63.6	59.4	42.4	46.7
87.5°	48.8	59.4	38.2	17.0	8.5	0.0	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)