

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: P459044

Luminaire Tested: **GALN-SA5C-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459044
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-SA5C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 32508 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

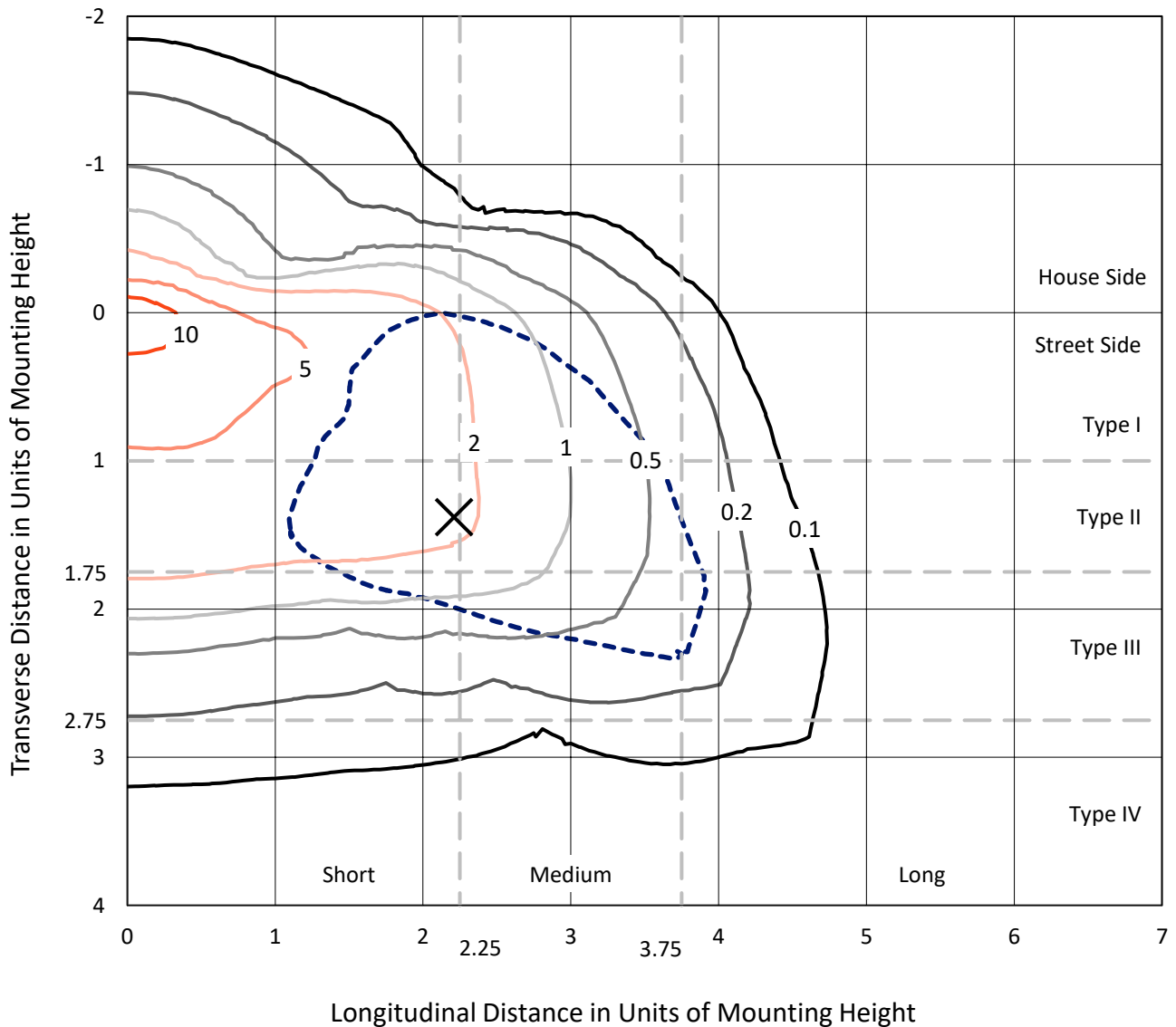
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

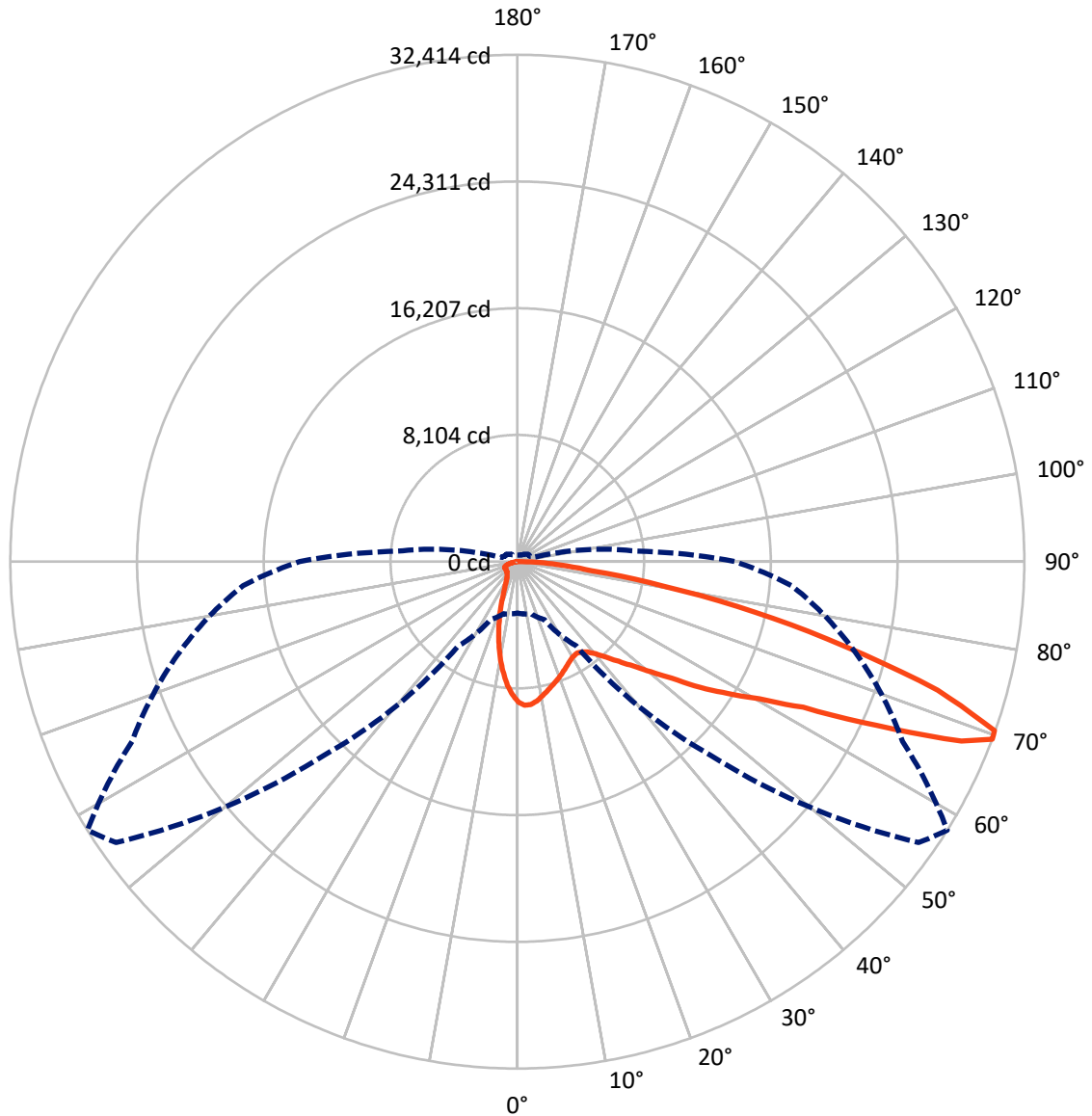
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	4764.0	0.0	4764.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	27744.0	0.0	27744.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	32508.0	0.0	32508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.9	2.3
10°-20°	1675.2	5.2
20°-30°	2164.4	6.7
30°-40°	2811.1	8.6
40°-50°	4086.9	12.6
50°-60°	6521.4	20.1
60°-70°	8711.8	26.8
70°-80°	5022.0	15.4
80°-90°	752.2	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°	32508.0	100.0
0°-180°	32508.0	100.0

Coefficient of Utilization



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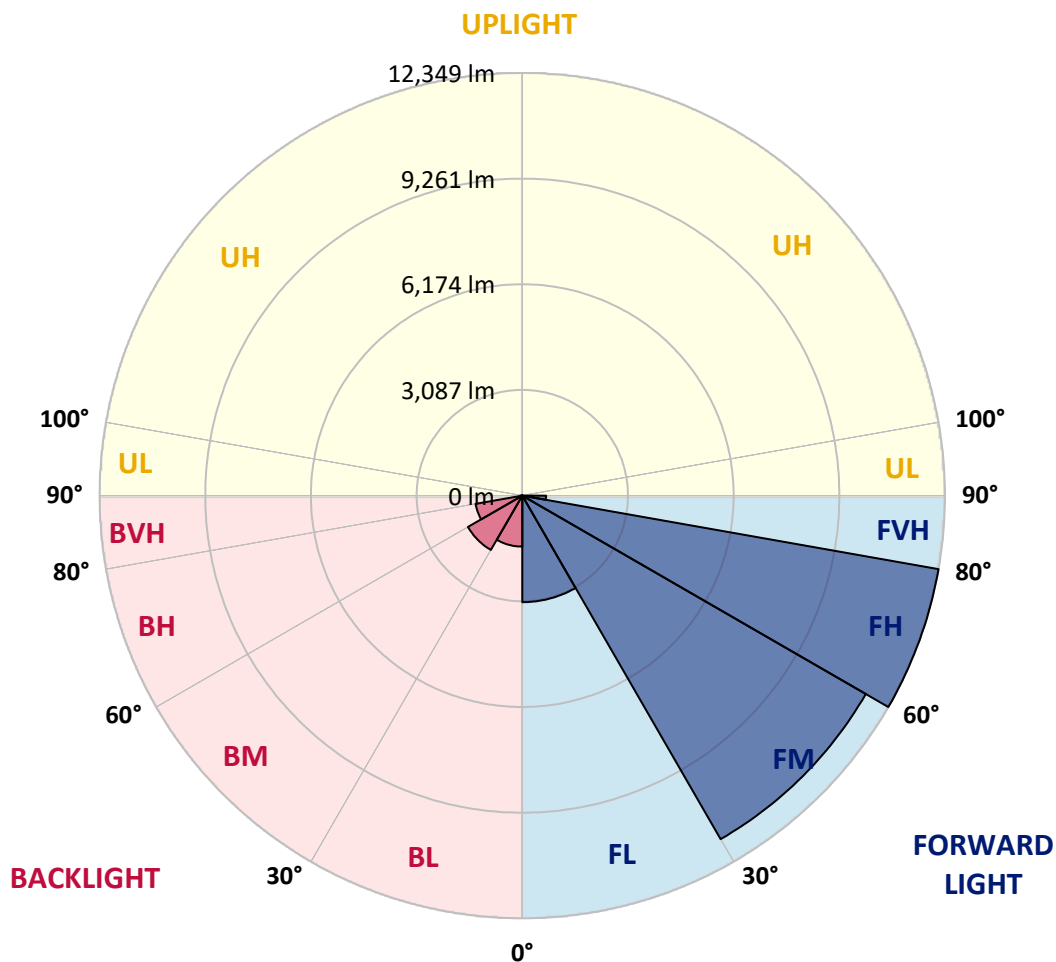
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3113.4	9.6			
FM	(30°-60°)	11587.4	35.6			
FH	(60°-80°)	12348.5	38.0			G5
FVH	(80°-90°)	694.6	2.1			G4/750
BL	(0°-30°)	1489.0	4.6	B3/2500		
BM	(30°-60°)	1832.1	5.6	B2/2500		
BH	(60°-80°)	1385.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	57.6	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°	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3
2.5°	9316.9	9342.3	9335.0	9326.0	9311.5	9271.6	9206.3	9195.4	9153.7	9064.9	8954.3
5°	9173.7	9195.4	9197.2	9209.9	9228.1	9220.8	9173.7	9168.2	9106.6	8986.9	8802.0
7.5°	8682.4	8711.4	8774.8	8845.5	8909.0	8968.8	8983.3	8992.4	8954.3	8816.5	8569.9
10°	8129.4	8158.4	8187.4	8292.6	8448.5	8597.1	8720.4	8736.7	8745.8	8618.9	8317.9
12.5°	7516.6	7576.4	7638.1	7794.0	8002.5	8236.4	8453.9	8488.4	8550.0	8453.9	8100.4
15°	6996.3	7057.9	7146.8	7286.4	7538.4	7875.6	8182.0	8238.2	8359.6	8310.7	7897.3
17.5°	6635.5	6657.3	6718.9	6878.4	7150.4	7505.7	7915.5	8027.9	8221.9	8209.2	7723.3
20°	6350.9	6378.1	6416.1	6514.0	6796.9	7172.1	7667.1	7812.1	8075.0	8118.5	7551.1
22.5°	6231.2	6251.1	6245.7	6298.3	6490.5	6867.6	7415.1	7587.3	7944.5	8056.9	7391.5
25°	6238.5	6256.6	6229.4	6216.7	6330.9	6599.2	7152.2	7371.6	7839.3	8015.2	7246.5
27.5°	6359.9	6372.6	6321.9	6271.1	6280.2	6432.4	6934.6	7177.6	7750.5	8033.3	7125.0
30°	6523.1	6546.7	6514.0	6452.4	6385.3	6392.6	6795.0	7034.4	7708.8	8096.8	7067.0
32.5°	6733.4	6755.2	6740.7	6691.7	6604.7	6508.6	6760.6	6981.8	7712.4	8225.5	7054.3
35°	6954.6	6998.1	7021.7	7018.0	6947.3	6780.5	6896.6	7079.7	7799.4	8441.2	7128.6
37.5°	7204.8	7241.0	7342.6	7407.8	7342.6	7148.6	7203.0	7329.9	7991.6	8753.1	7291.8
40°	7447.7	7502.1	7650.8	7853.8	7828.4	7658.0	7670.7	7754.1	8330.6	9217.2	7610.9
42.5°	7701.5	7766.8	8026.1	8327.0	8386.8	8254.5	8288.9	8363.3	8812.9	9860.8	8158.4
45°	8027.9	8105.8	8424.9	8800.2	9035.9	8954.3	9052.2	9088.5	9458.3	10698.4	8880.0
47.5°	8448.5	8539.1	8932.5	9400.3	9733.9	9808.2	9978.6	9956.9	10257.8	11690.1	9815.5
50°	9157.4	9208.1	9579.8	10056.6	10515.3	10850.7	11035.6	11070.0	11249.5	12654.6	10861.6
52.5°	10000.4	10045.7	10314.0	10731.0	11305.7	12016.4	12473.3	12360.9	12404.4	13829.4	12085.3
55°	10948.6	11024.7	11195.1	11472.5	12217.7	13263.8	14181.1	14208.3	13726.1	14953.4	13258.3
57.5°	11682.8	11811.6	12103.4	12498.7	13443.2	14650.7	15883.5	15901.6	15285.2	16153.6	14552.8
60°	11313.0	11465.3	12132.5	13095.1	15051.3	17071.0	17917.7	17814.3	16802.7	17520.6	16131.9
62.5°	9717.6	9744.8	10714.7	12219.5	15546.3	20309.0	20945.3	20508.4	18827.8	19253.8	17736.4
65°	6289.2	6466.9	7235.6	9344.1	13920.0	22105.6	26250.1	25240.3	21666.9	21220.9	19079.8
67.5°	3970.4	3925.1	4244.2	5335.6	9574.3	20522.9	30777.1	30617.6	25379.9	22462.8	18758.9
69°	3292.4	3343.1	3451.9	4090.1	6588.4	17522.4	31312.0	32414.2	27180.2	22364.9	17593.1
70°	2986.0	3009.5	3123.8	3626.0	5083.6	14676.1	30434.5	32365.3	27887.2	21955.2	16748.3
72.5°	2369.6	2367.7	2563.6	3016.8	3800.0	8377.8	24990.1	28099.4	27096.8	20047.9	13838.5
75°	1800.3	1829.3	2045.0	2552.7	3500.9	4577.8	17439.0	21639.7	21641.5	15834.6	8635.2
77.5°	1298.1	1316.2	1568.2	2142.9	3297.8	3711.2	11615.8	15520.9	14590.9	7255.5	2714.0
80°	850.3	861.2	1053.3	1696.9	2973.3	3500.9	6887.5	9500.0	6882.1	1925.4	897.4
82.5°	465.9	520.3	643.6	1098.7	2385.9	3234.4	4186.2	4808.0	2581.7	857.5	467.7
85°	233.9	248.4	362.6	641.8	1559.2	2676.0	2915.3	2757.5	1332.5	426.0	242.9
87.5°	68.9	87.0	150.5	248.4	632.7	1394.2	1622.6	1455.8	513.1	154.1	50.8
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°	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3	8983.3
2.5°	8909.0	8876.3	8731.3	8600.8	8481.1	8354.2	8247.2	8153.0	8162.0	8163.8	8067.8
5°	8705.9	8631.6	8356.0	8098.6	7881.0	7605.4	7369.8	7217.5	7141.3	7039.8	7076.1
7.5°	8430.3	8287.1	7904.6	7476.7	7076.1	6718.9	6330.9	6064.4	5894.0	5729.0	5750.8
10°	8145.7	7915.5	7358.9	6793.2	6274.7	5703.6	5208.7	4784.5	4469.0	4351.1	4273.2
12.5°	7853.8	7551.1	6844.0	6091.6	5375.5	4692.0	3990.4	3535.3	3187.2	3002.3	3025.9
15°	7587.3	7219.3	6307.4	5390.0	4459.9	3645.9	2946.1	2512.8	2269.8	2219.1	2248.1
17.5°	7340.7	6858.5	5805.2	4708.3	3622.3	2734.0	2213.6	1968.9	1871.0	1843.8	1842.0
20°	7086.9	6552.1	5241.3	3979.5	2822.8	2119.4	1816.6	1702.4	1684.3	1695.1	1696.9
22.5°	6829.5	6173.2	4661.2	3256.1	2248.1	1733.2	1588.2	1557.3	1571.9	1597.2	1600.9
25°	6592.0	5839.6	4102.8	2621.6	1794.8	1522.9	1452.2	1452.2	1484.8	1522.9	1524.7
27.5°	6396.2	5516.9	3546.2	2081.3	1503.0	1370.6	1347.0	1359.7	1405.1	1434.1	1435.9
30°	6234.8	5215.9	3020.4	1667.9	1321.7	1249.1	1243.7	1265.5	1298.1	1325.3	1327.1
32.5°	6113.4	4951.2	2529.1	1401.4	1196.6	1156.7	1154.9	1171.2	1189.3	1196.6	1203.8
35°	6066.2	4731.9	2079.5	1232.8	1113.2	1087.8	1087.8	1086.0	1093.2	1096.9	1100.5
37.5°	6104.3	4563.3	1731.4	1124.0	1051.5	1033.4	1022.5	1011.6	1008.0	1008.0	1009.8
40°	6265.7	4474.4	1472.1	1053.3	1008.0	980.8	960.9	948.2	935.5	939.1	942.7
42.5°	6608.3	4490.7	1296.3	1006.2	969.9	931.9	902.9	888.4	879.3	890.2	888.4
45°	7154.0	4653.9	1183.9	973.6	931.9	882.9	855.7	841.2	841.2	857.5	863.0
47.5°	7917.3	4965.7	1124.0	948.2	902.9	844.8	817.7	806.8	810.4	837.6	839.4
50°	8849.1	5507.8	1113.2	935.5	888.4	817.7	786.8	776.0	785.0	814.0	817.7
52.5°	9877.1	6205.8	1165.7	937.3	875.7	801.3	761.5	745.1	754.2	777.8	785.0
55°	11095.4	7079.7	1301.7	944.6	857.5	792.3	743.3	707.1	717.9	734.3	736.1
57.5°	12339.1	8182.0	1541.0	946.4	843.0	776.0	712.5	665.4	665.4	676.2	681.7
60°	13858.4	9382.2	1856.5	948.2	844.8	752.4	670.8	618.2	611.0	616.4	618.2
62.5°	15366.8	10386.6	1909.1	942.7	863.0	728.8	625.5	571.1	558.4	556.6	553.0
65°	16032.2	10199.8	1564.6	917.4	882.9	714.3	589.2	525.8	504.0	496.8	496.8
67.5°	14948.0	8628.0	1176.6	882.9	870.2	699.8	554.8	487.7	462.3	447.8	447.8
69°	13929.1	7674.3	1057.0	859.4	837.6	676.2	533.0	467.7	436.9	420.6	415.2
70°	13142.3	7018.0	1006.2	839.4	806.8	649.0	516.7	453.2	418.8	400.7	397.0
72.5°	10488.1	5506.0	881.1	763.3	687.1	545.7	458.7	407.9	375.3	355.3	349.9
75°	6044.5	2984.2	730.6	663.6	553.0	424.2	388.0	355.3	330.0	311.8	306.4
77.5°	1860.1	1153.1	529.4	524.0	406.1	328.1	310.0	297.3	279.2	259.3	255.6
80°	783.2	587.4	359.0	353.5	270.1	228.4	223.0	221.2	213.9	197.6	192.2
82.5°	429.7	331.8	250.2	217.6	163.2	132.3	137.8	139.6	134.2	117.8	107.0
85°	210.3	181.3	121.5	97.9	74.3	47.1	45.3	54.4	50.8	36.3	39.9
87.5°	41.7	50.8	32.6	14.5	7.3	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)