

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: P454203

Luminaire Tested: **GALN-SA5B-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454203
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-SA5B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 27893 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

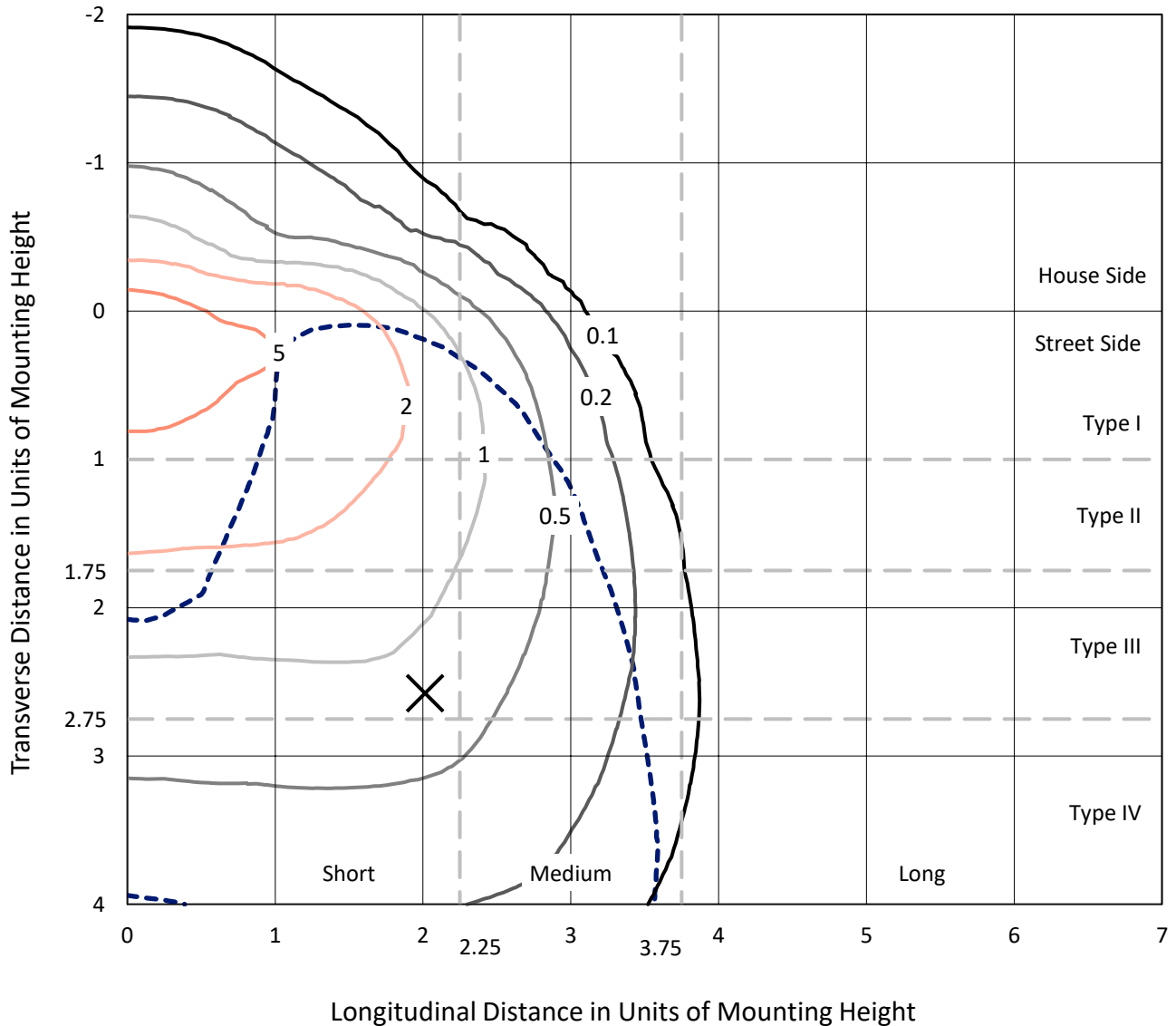
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

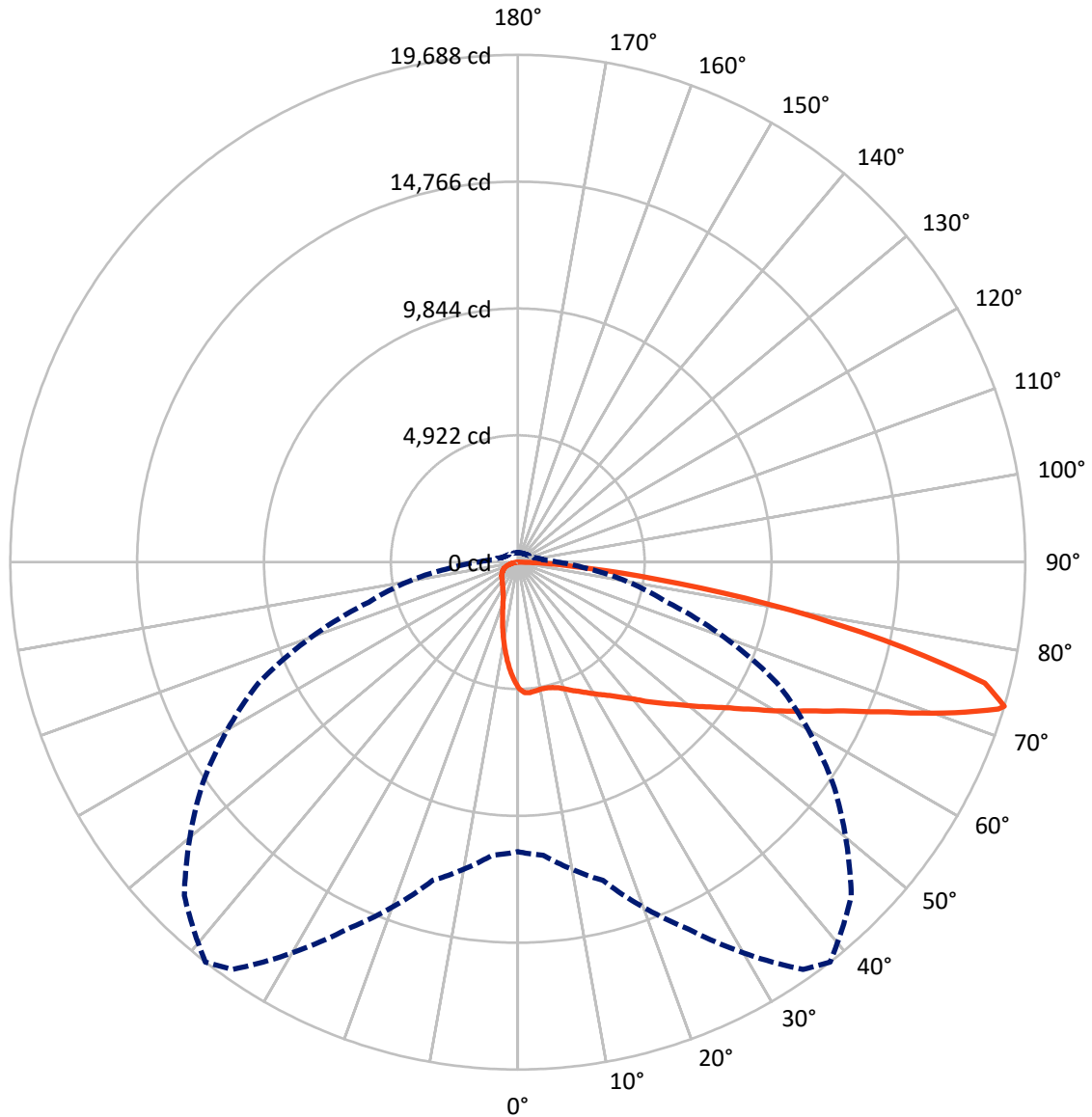
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	3749.7	0.0	3749.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24143.4	0.0	24143.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	27893.0	0.0	27893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.7	1.5
10°-20°	1096.9	3.9
20°-30°	1708.1	6.1
30°-40°	2505.3	9.0
40°-50°	3716.4	13.3
50°-60°	5265.3	18.9
60°-70°	6679.2	23.9
70°-80°	5559.9	19.9
80°-90°	934.2	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°	27893.0	100.0
0°-180°	27893.0	100.0

Coefficient of Utilization



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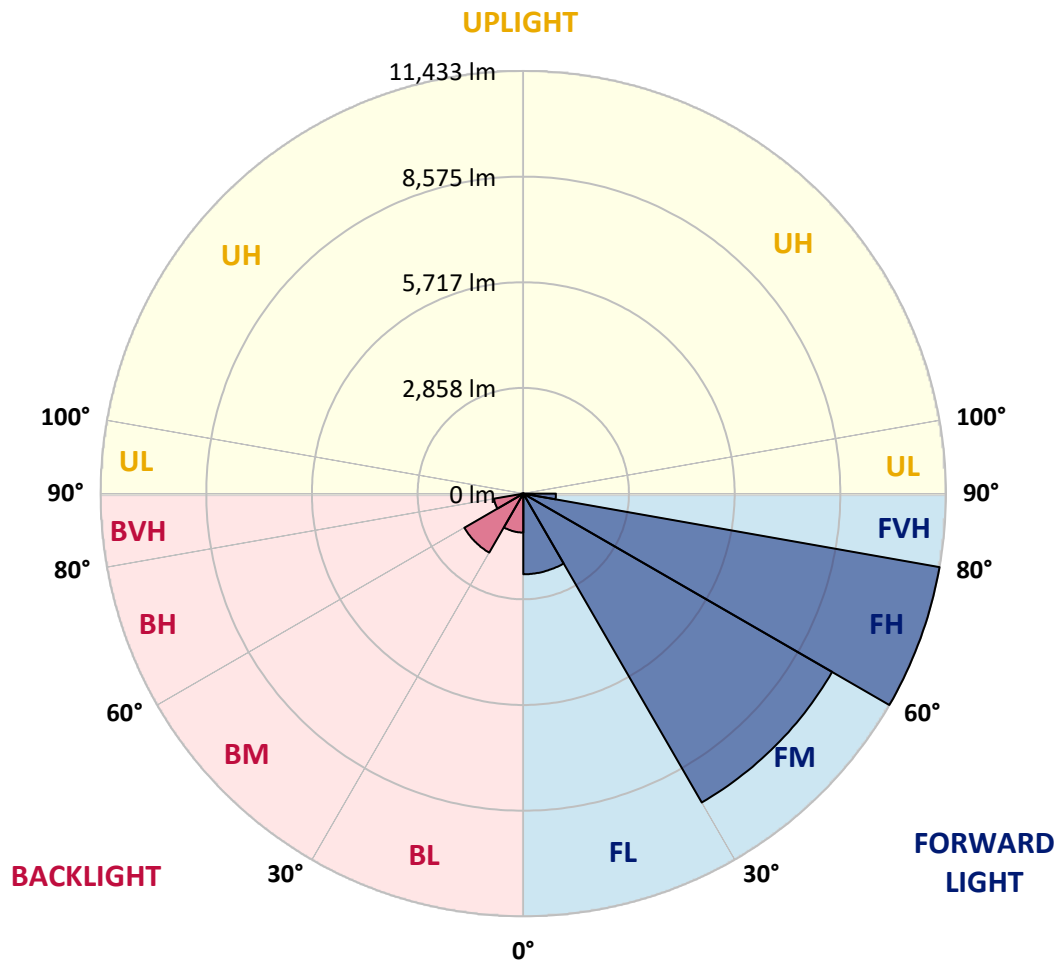
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2180.5	7.8			
FM (30°-60°)	9646.2	34.6			
FH (60°-80°)	11433.2	41.0			G4/12000
FVH (80°-90°)	883.5	3.2			G5
BL (0°-30°)	1052.2	3.8	B3/2500		
BM (30°-60°)	1840.9	6.6	B2/2500		
BH (60°-80°)	805.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	50.7	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°	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3
2.5°	5097.2	5122.4	5109.8	5092.5	5081.5	5070.4	5054.7	5009.0	4972.8	4933.4	4872.0
5°	5135.0	5150.8	5139.8	5117.7	5092.5	5081.5	5051.5	4991.7	4933.4	4867.2	4775.9
7.5°	5113.0	5119.3	5106.7	5079.9	5057.8	5037.4	5002.7	4936.6	4865.7	4785.3	4665.6
10°	5034.2	5057.8	5057.8	5035.8	5013.7	5002.7	4968.1	4905.1	4840.5	4749.1	4607.3
12.5°	4969.6	4994.8	5015.3	5009.0	5007.4	5007.4	4980.7	4933.4	4857.8	4771.2	4602.6
15°	4925.5	4955.5	4999.6	5024.8	5040.5	5045.2	5034.2	4993.3	4916.1	4815.3	4621.5
17.5°	4916.1	4952.3	5032.6	5087.8	5128.7	5127.2	5124.0	5067.3	4982.2	4878.3	4645.2
20°	4958.6	5005.9	5117.7	5204.3	5264.2	5253.2	5235.8	5161.8	5062.6	4946.0	4667.2
22.5°	5086.2	5135.0	5257.9	5352.4	5410.7	5410.7	5358.7	5261.0	5155.5	5024.8	4697.1
25°	5268.9	5322.5	5453.2	5549.3	5576.1	5555.6	5503.6	5385.5	5264.2	5138.2	4760.1
27.5°	5492.6	5557.2	5678.5	5758.8	5750.9	5735.2	5681.6	5530.4	5409.1	5294.1	4867.2
30°	5771.4	5818.6	5944.7	5963.6	5935.2	5932.1	5856.5	5705.2	5591.8	5503.6	5020.0
32.5°	6034.4	6077.0	6177.8	6185.7	6135.3	6141.6	6070.7	5932.1	5867.5	5836.0	5276.8
35°	6313.2	6335.3	6421.9	6412.5	6379.4	6374.7	6346.3	6214.0	6234.5	6291.2	5640.7
37.5°	6546.4	6590.5	6639.3	6647.2	6645.6	6661.4	6680.3	6617.3	6735.4	6913.4	6117.9
40°	6760.6	6798.4	6870.9	6896.1	6957.5	6989.0	7053.6	7055.1	7327.7	7620.6	6705.5
42.5°	6905.5	6970.1	7105.6	7151.2	7300.9	7395.4	7491.5	7593.9	7989.2	8365.7	7398.5
45°	7031.5	7116.6	7341.8	7483.6	7686.8	7801.8	8005.0	8219.2	8787.8	9280.9	8102.6
47.5°	7222.1	7297.7	7556.0	7806.5	8113.7	8246.0	8550.0	8869.7	9613.2	10153.5	8776.8
50°	7486.7	7532.4	7795.5	8203.4	8595.7	8765.8	9167.4	9629.0	10495.3	11015.1	9369.1
52.5°	7825.4	7844.3	8053.8	8597.2	9113.9	9325.0	9857.4	10396.1	11267.1	11763.3	9838.5
55°	8225.5	8194.0	8357.8	9014.6	9706.1	9981.8	10553.6	11172.6	12135.0	12368.2	10180.3
57.5°	8620.9	8572.0	8702.8	9521.9	10437.0	10769.4	11435.7	11972.8	12910.0	12933.7	10419.7
60°	9039.9	9003.6	9159.6	10117.3	11333.3	11727.1	12343.0	12802.9	13659.8	13327.4	10457.5
62.5°	9469.9	9411.6	9633.7	10786.7	12343.0	12700.5	13297.5	13685.0	14395.4	13473.9	10093.6
65°	9887.3	9860.5	10203.9	11582.2	13492.8	13899.2	14478.9	14741.9	14984.5	13253.4	9191.1
67.5°	10331.5	10385.0	10933.2	12643.8	14992.4	15502.7	16128.1	15880.8	15153.1	12209.1	7740.3
70°	11008.8	11043.5	11890.9	14034.7	16925.1	17541.0	17843.4	16285.6	14340.3	10225.9	5818.6
72.5°	11300.2	11453.0	12746.2	15494.9	19120.9	19497.3	18419.9	15383.0	11946.0	6946.5	3057.4
73°	11235.6	11418.3	12785.6	15717.0	19292.6	19687.9	18297.1	14918.4	11104.9	5982.5	2621.1
75°	10430.7	10656.0	12273.7	15531.1	18958.6	18722.4	16321.8	12714.7	7504.1	2720.3	1194.0
77.5°	8230.2	8294.8	9725.0	12541.4	14929.4	14491.5	12215.4	7946.7	3065.3	1011.3	677.3
80°	4128.5	4366.3	5481.6	7184.3	9983.4	9840.0	7710.4	3758.3	1277.5	593.8	448.9
82.5°	1986.3	2154.8	2669.9	3503.2	5516.2	5385.5	3818.2	2054.0	811.2	346.5	264.6
85°	1279.0	1405.0	1699.6	1671.2	2268.2	2165.8	1715.4	1554.7	480.4	181.1	184.3
87.5°	844.3	924.6	1108.9	886.8	825.4	746.6	757.7	875.8	94.5	69.3	25.2
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°	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3	4900.3
2.5°	4846.8	4826.3	4758.6	4692.4	4629.4	4569.5	4530.2	4478.2	4443.5	4453.0	4467.2
5°	4725.5	4679.8	4560.1	4443.5	4333.3	4202.5	4097.0	4011.9	3947.4	3923.7	3919.0
7.5°	4597.9	4520.7	4349.0	4149.0	3961.5	3799.3	3611.8	3518.9	3410.2	3372.4	3359.8
10°	4520.7	4416.8	4175.8	3896.9	3615.0	3345.6	3142.4	2977.1	2827.4	2799.1	2784.9
12.5°	4498.7	4361.6	4037.1	3678.0	3303.1	2972.3	2671.5	2454.1	2309.2	2276.1	2227.3
15°	4486.1	4315.9	3908.0	3457.5	2981.8	2578.5	2261.9	2008.3	1876.0	1787.8	1789.4
17.5°	4475.0	4264.0	3763.1	3216.5	2704.6	2239.9	1890.2	1661.8	1540.5	1493.3	1488.5
20°	4459.3	4202.5	3596.1	2962.9	2387.9	1931.1	1614.5	1444.4	1362.5	1323.1	1321.6
22.5°	4453.0	4142.7	3432.3	2704.6	2107.6	1693.3	1431.8	1312.1	1260.1	1233.4	1233.4
25°	4468.7	4100.1	3260.6	2458.8	1858.7	1490.1	1305.8	1223.9	1194.0	1179.8	1175.1
27.5°	4517.6	4081.2	3090.5	2213.1	1630.3	1351.5	1220.8	1164.0	1142.0	1131.0	1132.5
30°	4610.5	4079.7	2923.5	1970.5	1460.2	1246.0	1153.0	1113.6	1096.3	1090.0	1088.4
32.5°	4760.1	4114.3	2759.7	1770.5	1316.8	1157.7	1090.0	1061.7	1053.8	1049.1	1047.5
35°	5013.7	4212.0	2597.4	1587.8	1206.6	1079.0	1030.2	1016.0	1005.0	1009.7	1011.3
37.5°	5355.5	4380.5	2443.1	1444.4	1123.1	1020.7	979.8	967.1	960.8	965.6	970.3
40°	5813.9	4623.1	2313.9	1329.4	1063.2	971.9	935.6	924.6	918.3	926.2	927.8
42.5°	6319.5	4903.5	2206.8	1239.7	1014.4	930.9	896.3	883.7	878.9	883.7	885.2
45°	6839.4	5229.5	2151.7	1175.1	973.4	901.0	864.8	850.6	839.6	836.4	841.1
47.5°	7351.3	5513.1	2150.1	1135.7	940.4	874.2	834.8	819.1	804.9	797.0	795.5
50°	7768.7	5738.3	2187.9	1118.4	912.0	844.3	804.9	789.2	770.3	754.5	757.7
52.5°	8083.7	5884.8	2205.2	1110.5	896.3	812.8	773.4	759.2	737.2	716.7	716.7
55°	8286.9	5919.5	2162.7	1102.6	883.7	779.7	737.2	724.6	702.5	682.0	682.0
57.5°	8356.2	5812.3	2009.9	1083.7	871.1	751.4	700.9	689.9	672.6	652.1	649.0
60°	8195.6	5450.1	1742.1	1027.0	845.9	721.4	661.6	656.8	650.5	633.2	631.6
62.5°	7576.5	4681.4	1450.7	953.0	803.3	689.9	625.3	633.2	637.9	628.5	626.9
65°	6546.4	3800.9	1239.7	850.6	746.6	645.8	586.0	606.4	619.0	619.0	615.9
67.5°	5309.9	2918.8	1044.3	762.4	675.7	586.0	541.9	557.6	567.1	563.9	571.8
70°	3774.1	1976.8	850.6	661.6	586.0	518.2	485.1	485.1	478.8	475.7	475.7
72.5°	1830.3	1129.4	689.9	552.9	499.3	442.6	415.8	404.8	392.2	390.6	382.8
73°	1529.5	1012.8	658.4	532.4	478.8	431.6	401.7	384.3	376.5	370.2	368.6
75°	930.9	768.7	549.7	448.9	408.0	371.7	345.0	329.2	321.3	316.6	315.0
77.5°	612.7	573.4	426.9	343.4	311.9	289.8	278.8	263.1	258.3	252.0	252.0
80°	456.8	437.9	305.6	242.6	223.7	204.8	201.6	198.5	185.9	178.0	174.8
82.5°	294.6	311.9	207.9	162.2	141.8	126.0	127.6	132.3	119.7	108.7	105.5
85°	209.5	225.2	126.0	74.0	59.9	52.0	58.3	52.0	53.6	42.5	34.7
87.5°	34.7	59.9	22.1	9.5	4.7	3.2	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)