

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: P458691

Luminaire Tested: **GALN-SA2C-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13299 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

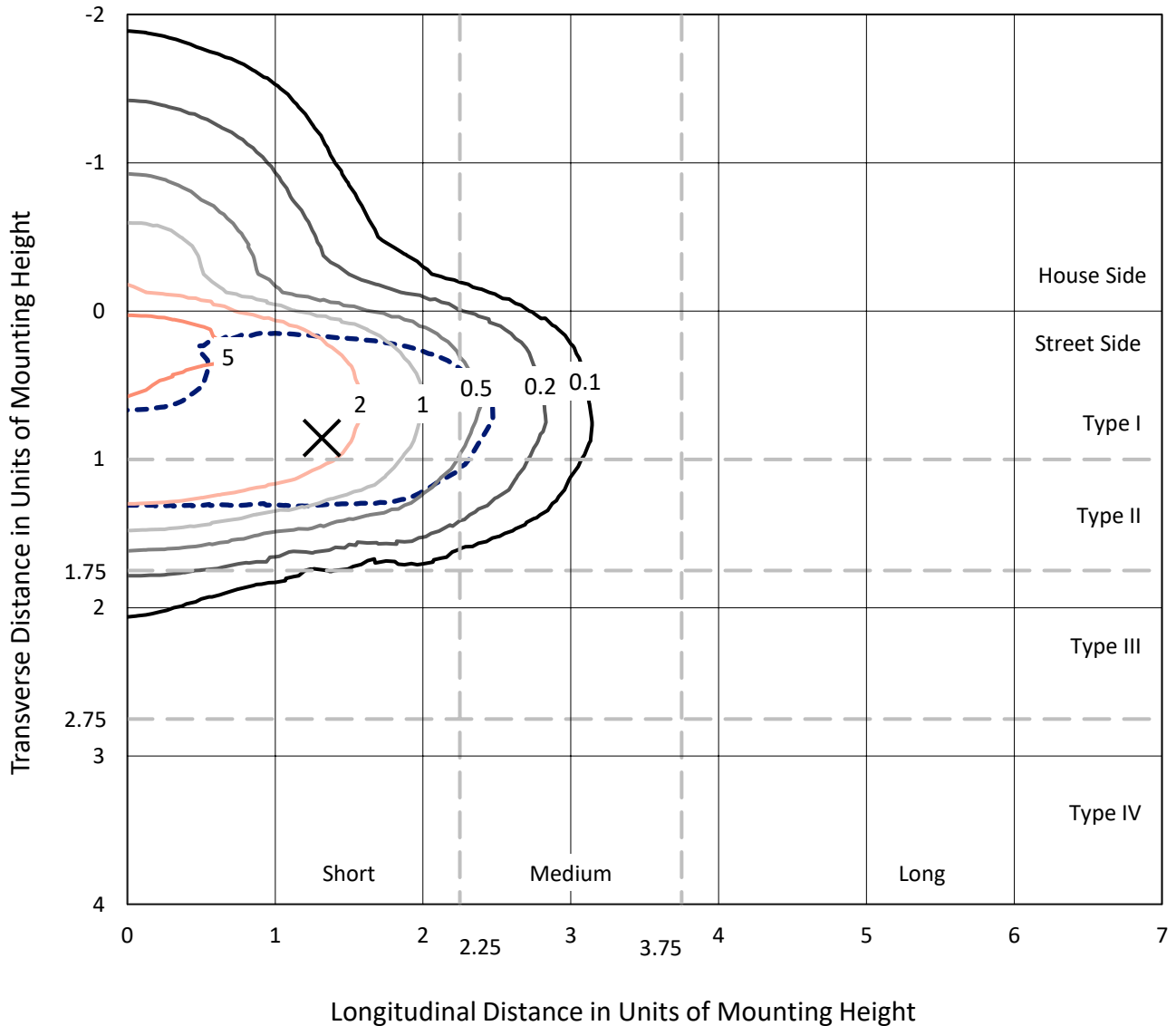
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

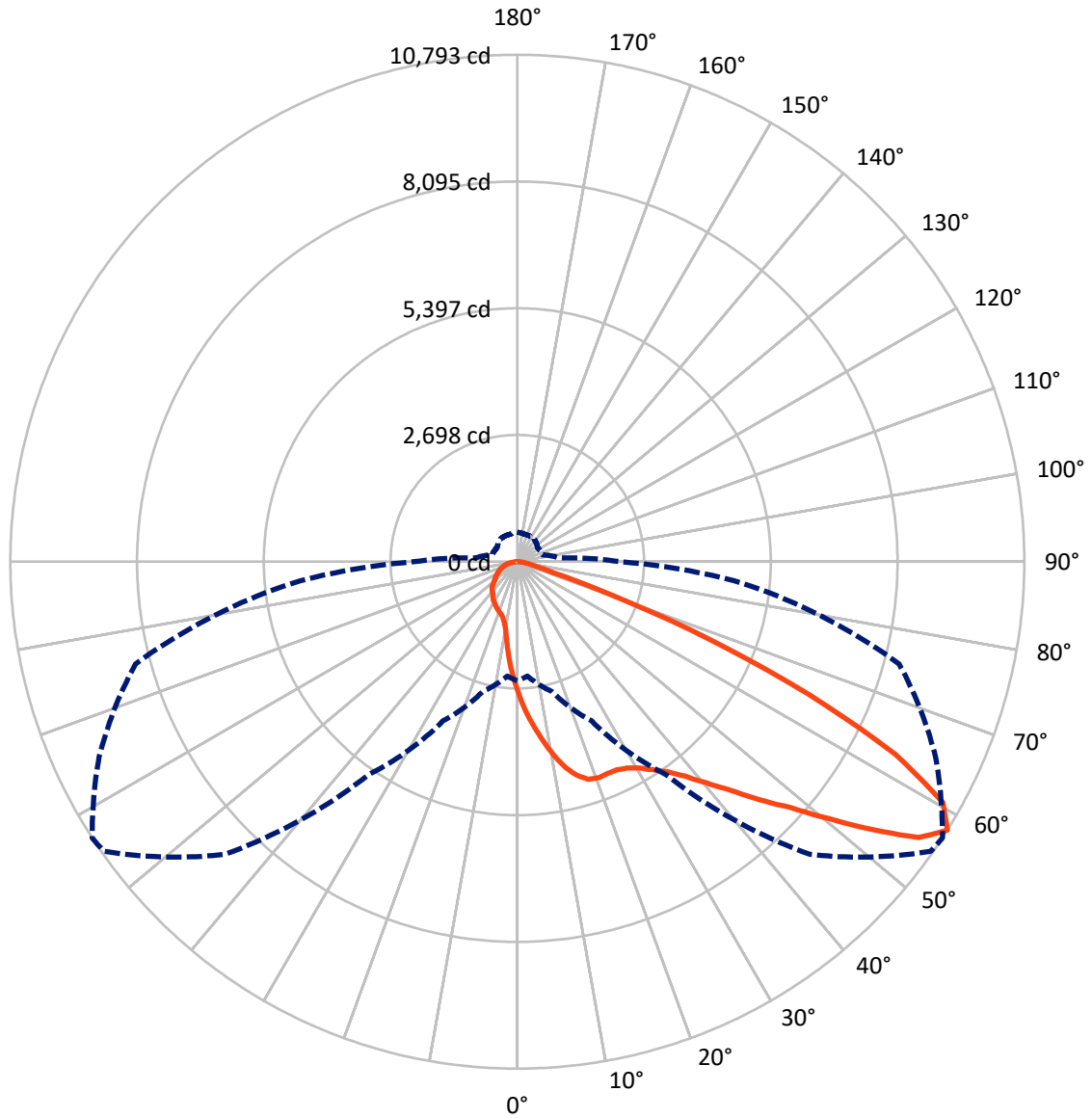
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2022.4	0.0	2022.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	11276.6	0.0	11276.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	13299.0	0.0	13299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	2.0
10°-20°	791.4	6.0
20°-30°	1314.1	9.9
30°-40°	1979.4	14.9
40°-50°	2971.9	22.3
50°-60°	3331.1	25.0
60°-70°	1949.5	14.7
70°-80°	576.7	4.3
80°-90°	116.6	0.9
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°	13299.0	100.0
0°-180°	13299.0	100.0

Coefficient of Utilization



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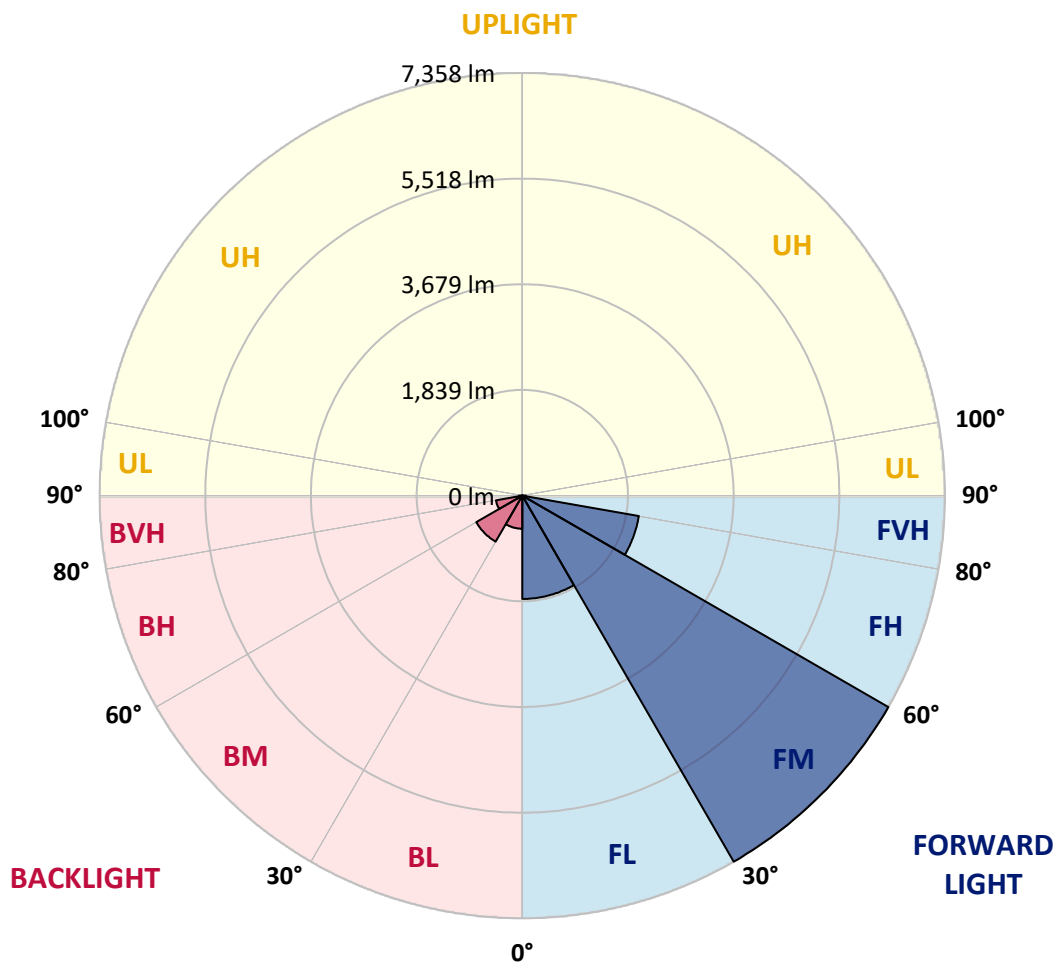
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1797.7	13.5			
FM	(30°-60°)	7357.6	55.3			
FH	(60°-80°)	2060.8	15.5			G2/5000
FVH	(80°-90°)	60.5	0.5			G1/100
BL	(0°-30°)	576.3	4.3	B2/1000		
BM	(30°-60°)	924.7	7.0	B1/1000		
BH	(60°-80°)	465.3	3.5	B1/500		G1/500
BVH	(80°-90°)	56.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	3471.7	3433.9	3404.0	3377.8	3343.6	3251.1	3158.7	3157.2	3083.7	2970.1	2853.7
5°	4037.3	3986.4	3992.9	3911.4	3829.9	3695.9	3500.1	3489.9	3333.4	3120.8	2904.6
7.5°	4405.7	4406.4	4386.0	4339.5	4251.4	4099.2	3877.2	3827.0	3609.3	3286.8	2962.9
10°	4386.8	4406.4	4440.6	4480.7	4507.6	4432.6	4230.3	4169.1	3885.9	3487.7	3027.6
12.5°	4134.9	4165.5	4214.2	4314.7	4477.0	4600.8	4531.6	4482.1	4206.2	3687.9	3099.0
15°	3977.7	3995.9	4022.8	4090.5	4265.2	4561.5	4740.6	4714.4	4508.3	3914.3	3179.1
17.5°	3929.6	3947.8	3956.5	3998.0	4122.5	4426.1	4822.8	4869.4	4776.2	4122.5	3259.9
20°	3977.7	3986.4	3986.4	4011.1	4108.7	4346.7	4819.2	4913.1	4996.1	4372.2	3335.6
22.5°	4103.6	4107.2	4102.1	4110.9	4183.7	4368.6	4785.0	4901.5	5173.7	4584.1	3394.5
25°	4308.2	4314.0	4280.5	4260.1	4313.3	4464.7	4803.9	4910.9	5312.8	4786.4	3433.9
27.5°	4540.4	4547.7	4506.9	4459.6	4484.3	4583.3	4878.2	4974.3	5416.9	4985.9	3458.6
30°	4825.0	4827.9	4759.5	4702.7	4686.7	4760.2	5004.8	5094.4	5546.4	5221.0	3495.7
32.5°	5116.2	5138.0	5050.0	4969.9	4942.9	4965.5	5191.9	5278.5	5700.8	5473.6	3555.4
35°	5512.2	5515.9	5410.3	5312.8	5223.9	5253.1	5431.4	5494.0	5914.1	5765.6	3639.9
37.5°	6006.5	6040.0	5894.4	5712.4	5603.2	5561.0	5721.2	5789.6	6213.3	6123.7	3767.3
40°	6555.4	6567.8	6443.3	6329.7	6130.3	6008.0	6118.6	6192.9	6582.3	6551.0	3915.0
42.5°	6900.5	6927.4	6936.9	6925.2	6775.3	6570.0	6612.2	6647.1	7019.1	6952.2	4066.5
45°	7017.0	7057.0	7192.4	7479.2	7495.2	7292.9	7194.6	7228.1	7495.2	7356.9	4211.3
47.5°	6824.0	6892.5	7142.2	7730.4	8170.8	8186.1	7889.8	7816.3	7929.1	7692.5	4316.2
50°	6325.4	6339.9	6722.1	7573.9	8487.5	9040.0	8733.5	8596.7	8341.1	7940.8	4388.2
52.5°	5553.7	5570.5	5890.8	6846.6	8292.4	9636.9	9720.6	9476.0	8759.7	8133.7	4435.6
55°	4122.5	4219.3	4571.7	5495.5	7367.8	9580.9	10505.4	10366.4	9265.7	8286.5	4509.8
57.5°	2534.8	2446.0	2863.9	3738.9	5541.3	8810.7	10747.8	10793.0	9822.6	8414.7	4634.3
60°	1166.2	1183.7	1356.2	1928.4	3377.8	6892.5	10123.2	10408.6	10130.5	8410.3	4665.6
62.5°	803.7	787.7	744.0	846.6	1540.4	4359.1	8550.8	9034.2	9513.2	8149.0	4541.1
65°	718.5	702.5	618.1	589.7	707.6	1900.0	6216.2	6826.2	8009.9	7489.4	4231.0
67.5°	671.2	649.4	562.0	506.7	505.2	756.4	3665.4	4399.9	5941.0	6331.9	3666.1
70°	621.7	604.2	517.6	456.4	430.2	475.4	1611.0	2108.9	3857.5	4562.9	2855.8
72.5°	572.2	551.8	473.9	408.4	374.2	356.0	617.3	803.0	2179.6	2735.7	1750.8
75°	500.1	489.9	423.7	369.8	332.7	287.6	391.7	447.0	1042.5	1256.5	878.7
77.5°	437.5	426.6	376.4	323.2	296.3	233.7	278.1	303.6	439.7	509.6	396.7
80°	320.3	331.2	317.4	285.4	264.3	183.4	187.1	208.2	261.3	289.0	242.4
82.5°	203.1	223.5	244.6	219.8	200.2	144.9	129.6	137.6	178.4	189.3	107.7
85°	85.2	86.6	142.0	133.9	114.3	85.9	77.9	82.3	95.4	99.7	50.2
87.5°	32.8	32.0	50.2	46.6	35.7	24.8	24.8	27.7	37.9	34.9	16.0
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°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2803.4	2751.7	2649.1	2521.7	2428.5	2323.7	2231.2	2165.0	2140.2	2128.6	2106.8
5°	2801.2	2699.3	2486.8	2264.0	2084.9	1901.5	1746.4	1646.0	1637.2	1570.2	1563.7
7.5°	2802.0	2646.2	2307.7	1980.1	1707.1	1519.3	1391.2	1357.7	1317.6	1307.4	1312.5
10°	2804.2	2578.5	2115.5	1699.1	1434.8	1311.8	1263.8	1250.7	1252.1	1256.5	1257.2
12.5°	2807.1	2513.0	1916.0	1485.8	1282.0	1231.0	1225.9	1237.6	1249.9	1259.4	1261.6
15°	2810.7	2438.0	1721.7	1314.0	1205.5	1201.2	1217.9	1237.6	1255.0	1268.9	1271.0
17.5°	2806.3	2350.6	1558.6	1208.4	1163.3	1184.4	1212.1	1236.8	1252.8	1265.9	1267.4
20°	2796.2	2253.1	1401.4	1134.2	1137.1	1171.3	1201.2	1224.5	1241.9	1248.5	1253.6
22.5°	2756.8	2136.6	1264.5	1076.7	1105.8	1153.1	1188.8	1202.6	1183.0	1169.1	1172.8
25°	2689.9	1985.2	1137.1	1030.1	1077.4	1127.6	1164.0	1130.5	1114.5	1108.7	1111.6
27.5°	2606.2	1819.2	1041.0	981.3	1041.0	1099.2	1089.1	1083.2	1075.9	1066.5	1068.7
30°	2515.9	1656.9	959.5	943.5	1001.7	1035.2	1039.5	1049.0	1041.0	1026.4	1032.3
32.5°	2432.2	1504.0	897.6	911.4	974.0	968.9	1001.7	1012.6	975.5	926.7	928.9
35°	2360.8	1362.0	851.0	880.1	926.7	928.9	961.7	923.8	883.8	860.5	861.9
37.5°	2307.0	1251.4	820.4	853.2	866.3	894.0	876.5	856.8	851.7	835.7	836.4
40°	2274.9	1154.6	800.8	832.1	829.9	848.8	792.8	812.4	819.7	814.6	815.3
42.5°	2242.9	1086.1	780.4	803.0	802.2	765.1	752.7	769.5	788.4	790.6	789.1
45°	2217.4	1033.0	759.3	758.5	773.1	714.9	711.2	721.4	748.4	761.5	760.7
47.5°	2189.0	988.6	727.2	706.9	711.2	683.6	677.7	682.1	714.9	736.0	741.8
50°	2153.3	944.2	687.2	659.5	641.3	654.4	655.9	656.6	689.4	713.4	718.5
52.5°	2125.0	910.7	641.3	621.0	599.1	628.2	639.2	640.6	660.3	679.9	683.6
55°	2141.7	891.8	596.2	581.7	562.0	601.3	622.4	625.3	629.7	644.3	646.4
57.5°	2191.9	896.1	559.8	540.9	526.3	569.3	604.9	607.1	604.2	621.7	624.6
60°	2207.2	894.0	532.9	495.8	487.0	535.1	579.5	583.8	583.1	608.6	613.7
62.5°	2143.2	866.3	505.9	457.9	452.1	500.1	543.8	561.3	564.9	601.3	607.9
65°	1992.5	809.5	470.3	417.9	417.9	463.0	509.6	533.6	543.8	592.6	599.9
67.5°	1793.7	742.5	433.9	383.6	382.2	427.3	473.2	497.9	514.0	580.2	584.6
70°	1488.7	652.3	388.7	346.5	346.5	387.3	428.8	458.6	481.9	556.9	556.9
72.5°	1019.9	542.3	334.1	304.3	305.0	342.9	385.1	418.6	446.2	510.3	511.8
75°	645.0	423.7	274.4	259.2	262.1	297.7	341.4	376.4	431.7	504.5	506.7
77.5°	342.9	297.7	218.4	214.8	218.4	251.2	299.9	348.0	433.1	437.5	430.2
80°	222.0	211.1	172.5	165.3	166.7	202.4	267.2	330.5	348.0	352.3	336.3
82.5°	120.8	133.9	122.3	115.0	115.0	158.0	227.9	262.8	249.7	207.5	198.0
85°	51.7	62.6	63.3	55.3	53.1	97.5	152.9	143.4	133.2	127.4	125.9
87.5°	14.6	20.4	20.4	15.3	11.6	26.9	30.6	8.7	0.0	0.7	1.5
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)