

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: P652143

Luminaire Tested: **GALN-SA9A-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34575.2 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

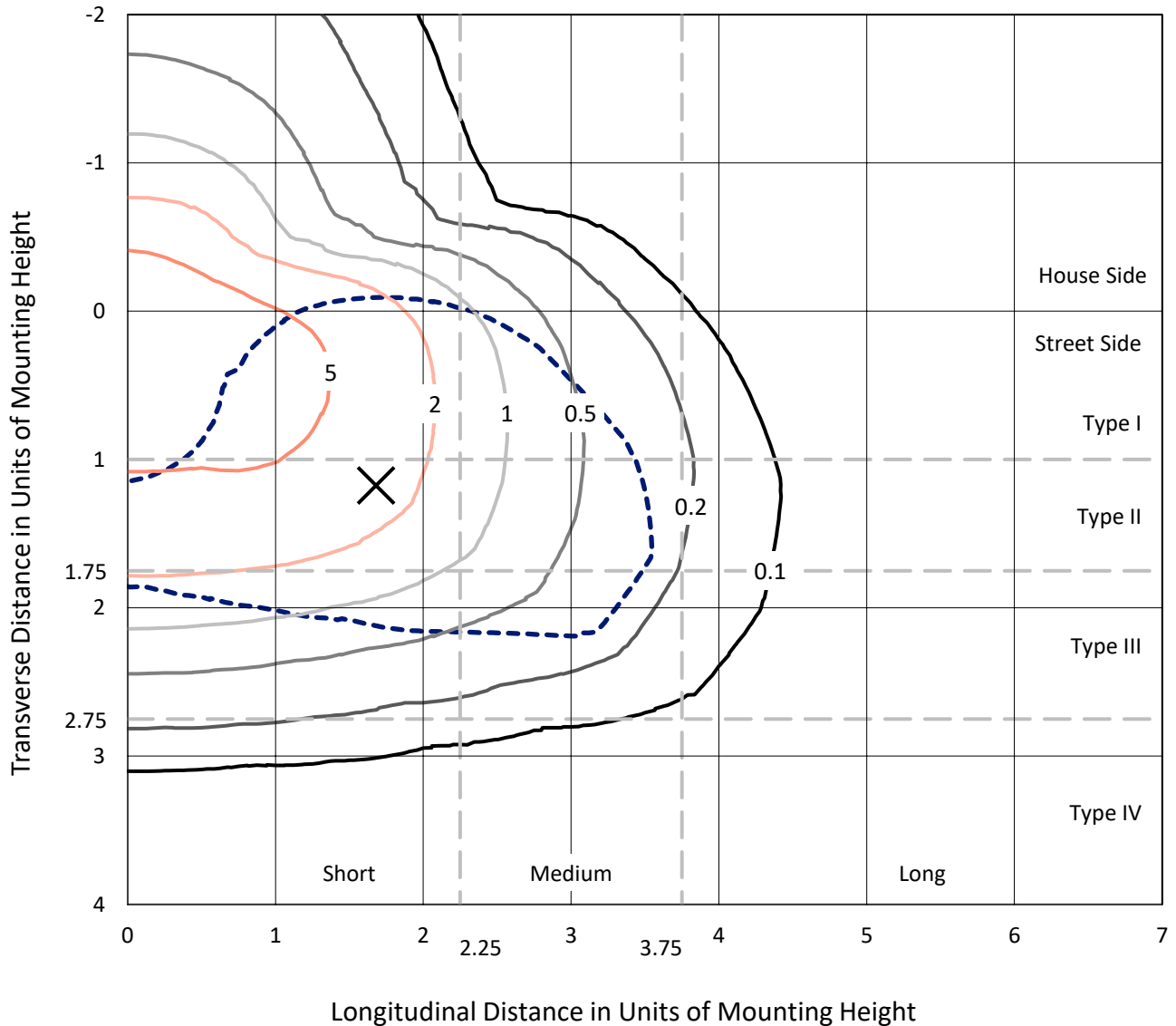
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

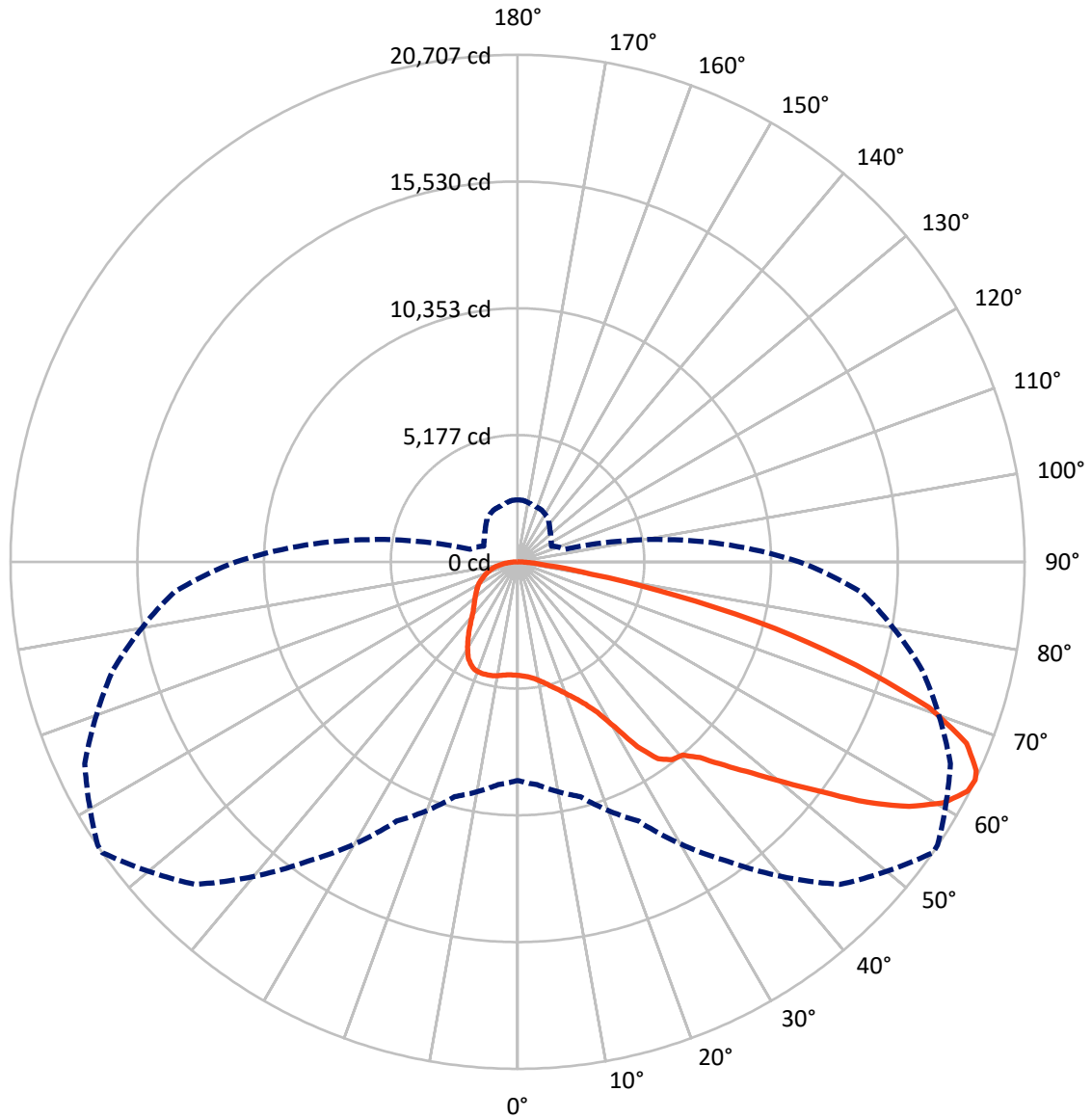
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8399.0	0.0	8399.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	26176.2	0.0	26176.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	34575.2	0.0	34575.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.2	1.3
10°-20°	1423.8	4.1
20°-30°	2534.8	7.3
30°-40°	3900.0	11.3
40°-50°	5528.6	16.0
50°-60°	8002.5	23.1
60°-70°	8281.7	24.0
70°-80°	3878.4	11.2
80°-90°	574.1	1.7
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°	34575.2	100.0
0°-180°	34575.2	100.0

Coefficient of Utilization

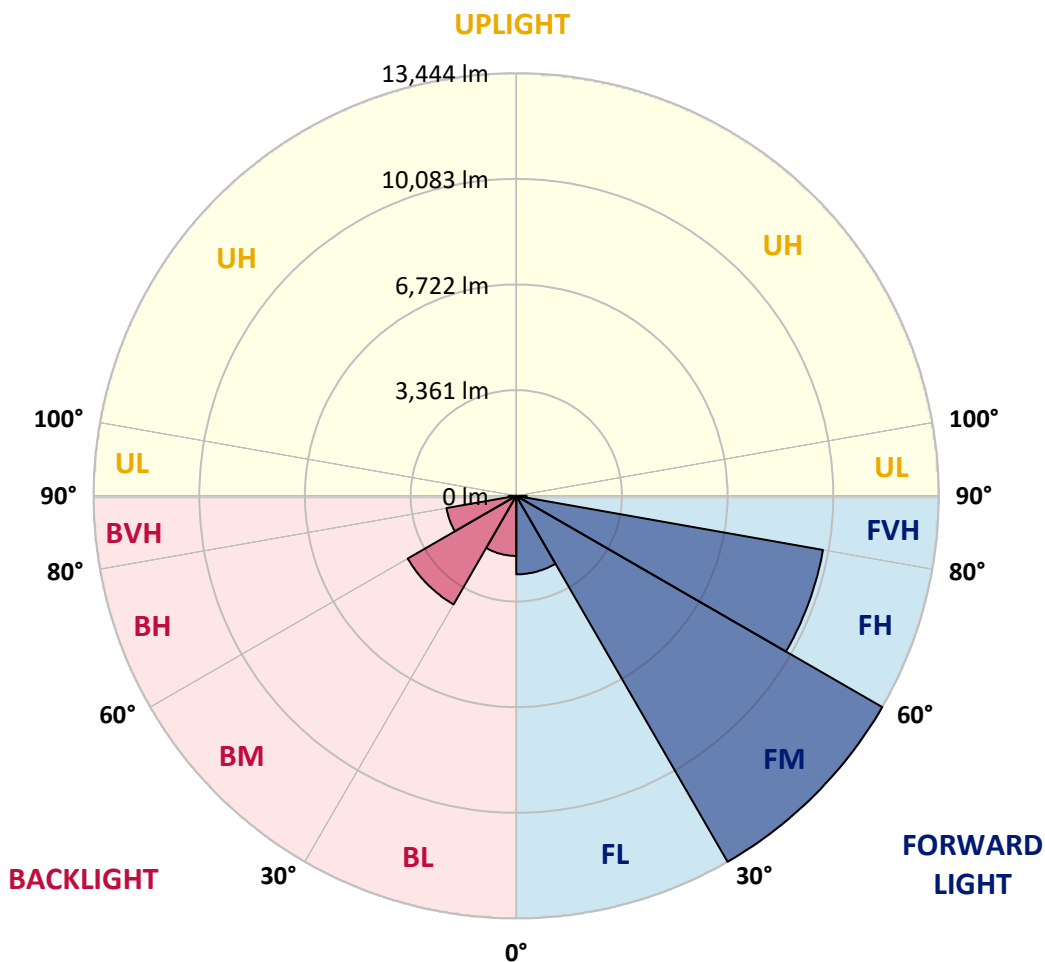


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2496.9	7.2			
FM (30°-60°)	13443.8	38.9			
FH (60°-80°)	9906.8	28.7			G4/12000
FVH (80°-90°)	328.7	1.0			G3/500
BL (0°-30°)	1913.0	5.5	B3/2500		
BM (30°-60°)	3987.3	11.5	B3/5000		
BH (60°-80°)	2253.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	245.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0
2.5°	4691.0	4689.1	4694.8	4689.1	4692.9	4679.4	4673.6	4677.5	4671.7	4662.1	4644.8
5°	4748.8	4746.9	4748.8	4741.1	4744.9	4737.3	4723.7	4727.6	4717.9	4696.7	4671.7
7.5°	4847.1	4839.4	4839.4	4837.4	4829.8	4818.2	4808.6	4804.7	4795.0	4768.0	4729.5
10°	4974.3	4974.3	4976.2	4960.8	4970.5	4949.2	4939.6	4937.7	4904.9	4870.2	4816.2
12.5°	5142.0	5151.6	5145.8	5138.1	5134.2	5126.6	5093.8	5101.5	5064.8	5005.1	4939.6
15°	5350.1	5365.5	5355.9	5352.0	5342.4	5313.5	5300.0	5294.2	5246.1	5159.3	5072.6
17.5°	5625.7	5606.4	5598.7	5589.1	5548.6	5527.4	5504.3	5500.5	5458.0	5355.9	5221.0
20°	5866.6	5893.6	5878.2	5868.6	5828.0	5787.6	5770.3	5764.5	5727.9	5616.1	5400.2
22.5°	6153.8	6159.6	6165.4	6142.2	6123.0	6092.1	6061.3	6051.7	6038.1	5922.5	5658.5
25°	6460.2	6483.4	6464.1	6441.0	6417.8	6415.9	6444.8	6441.0	6435.2	6323.4	6001.5
27.5°	6959.4	6980.6	6986.4	6961.3	6872.7	6880.4	6945.9	6967.1	7055.7	6870.7	6442.9
30°	7240.8	7262.0	7310.1	7404.6	7545.3	7668.7	7826.7	7874.9	7959.6	7610.8	6967.1
32.5°	7414.3	7421.9	7508.6	7684.0	8106.1	8566.8	8996.5	9013.8	9067.8	8578.3	7447.0
35°	7687.9	7693.6	7763.0	7955.8	8451.1	9218.1	9883.1	9904.3	9860.0	8878.9	7670.5
37.5°	8025.2	8040.5	8085.0	8244.9	8836.6	9763.6	10251.2	10235.7	9842.6	9118.0	8065.6
40°	8516.6	8516.6	8464.6	8680.5	9243.2	10075.8	10380.3	10353.3	10249.3	9809.8	8666.9
42.5°	8950.3	8942.5	9065.9	9212.4	9752.0	10557.6	10921.9	10966.2	11137.7	10679.0	9351.2
45°	9515.0	9549.6	9619.0	9884.9	10617.4	11380.6	11850.8	11893.2	12136.1	11702.4	10151.0
47.5°	10085.4	10097.0	10314.8	10669.3	11688.9	12496.4	12881.9	12951.3	13172.9	12899.3	11012.5
50°	10490.1	10600.0	10948.8	11507.7	12793.2	13857.1	14157.7	14240.7	14631.9	14202.1	12016.5
52.5°	10918.0	11025.9	11451.9	12303.7	14061.4	15248.6	15618.6	15674.5	16081.2	15520.3	13043.8
55°	11284.2	11384.4	11868.1	13009.1	15071.3	16669.0	17339.7	17274.1	17468.8	16536.0	13835.9
57.5°	11343.9	11424.9	12033.9	13460.0	15830.6	17887.1	18848.7	18887.3	18661.8	17295.3	14489.3
60°	10881.4	11047.1	11746.8	13411.9	16171.8	18735.0	19974.3	20001.3	19361.4	17684.6	14749.5
62.5°	10062.3	10045.0	10891.0	12637.1	15693.8	18927.7	20637.2	20608.4	19635.1	17497.7	14497.0
64°	8931.0	9139.1	9929.4	11685.0	14922.9	18630.9	20706.6	20691.2	19504.0	17108.4	14067.2
65°	8241.0	8229.4	9010.0	10906.4	14155.8	18183.8	20583.3	20562.1	19230.3	16759.5	13733.8
67.5°	5949.5	5976.5	6747.3	8416.4	11507.7	16435.7	19779.6	19700.6	18151.1	15603.2	12465.6
70°	3604.0	3619.4	4224.6	5583.3	8260.3	13286.6	17829.2	17833.1	16499.4	13876.3	10609.6
72.5°	1898.4	1938.8	2181.6	3170.4	5016.7	9322.2	14464.2	14807.2	14165.5	11843.1	8381.7
75°	1056.1	1061.9	1233.5	1563.0	2559.4	5217.1	10871.8	10970.0	11214.8	9532.3	6198.1
77.5°	805.6	817.2	871.1	1009.9	1393.5	2418.7	6579.7	7073.1	7903.7	6720.4	3536.6
80°	653.4	664.9	711.1	794.1	927.0	1146.7	3056.6	3322.6	4230.4	2983.4	1379.9
82.5°	508.8	501.1	560.9	614.8	674.6	678.4	1254.7	1387.6	1723.0	1283.5	597.4
85°	377.8	377.8	426.0	414.4	435.6	397.0	553.1	611.0	690.0	545.4	277.5
87.5°	150.3	165.8	279.5	250.5	194.7	156.1	204.3	215.9	239.0	214.0	115.6
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°	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0	4639.0
2.5°	4646.7	4652.4	4639.0	4629.3	4625.4	4619.7	4613.9	4615.8	4623.6	4631.2	4629.3
5°	4669.8	4671.7	4648.5	4637.0	4629.3	4621.6	4621.6	4627.4	4642.8	4654.3	4654.3
7.5°	4727.6	4727.6	4694.8	4673.6	4662.1	4648.5	4644.8	4646.7	4658.2	4673.6	4675.5
10°	4818.2	4810.4	4768.0	4735.3	4714.1	4681.3	4652.4	4637.0	4642.8	4652.4	4652.4
12.5°	4928.0	4906.8	4852.9	4808.6	4756.5	4694.8	4635.1	4604.2	4602.3	4612.0	4608.1
15°	5045.6	5022.5	4947.4	4866.4	4775.8	4685.2	4613.9	4569.6	4534.8	4525.3	4546.4
17.5°	5182.4	5134.2	5030.2	4918.4	4783.5	4666.0	4554.2	4463.5	4401.9	4384.6	4390.4
20°	5348.2	5284.6	5143.9	4968.5	4777.7	4596.6	4423.1	4301.7	4201.5	4170.6	4174.5
22.5°	5577.5	5467.7	5261.5	4993.6	4729.5	4465.5	4224.6	4066.6	3945.1	3896.9	3925.9
25°	5837.7	5718.2	5373.2	4987.8	4604.2	4255.5	3989.5	3783.2	3673.4	3602.1	3617.5
27.5°	6196.2	5984.2	5492.7	4935.7	4425.0	3999.1	3690.7	3496.0	3395.9	3359.2	3376.6
30°	6654.9	6329.2	5621.8	4795.0	4141.7	3675.3	3390.1	3262.9	3203.1	3156.9	3172.3
32.5°	6986.4	6572.0	5650.8	4558.0	3835.3	3380.4	3185.8	3091.3	3025.8	2981.5	2991.1
35°	7223.4	6778.2	5637.3	4267.0	3515.4	3137.6	3023.9	2946.8	2840.8	2744.4	2727.1
37.5°	7541.4	7036.5	5539.0	3949.0	3199.2	2973.8	2892.9	2750.2	2597.9	2468.8	2463.0
40°	8029.0	7339.1	5328.9	3575.1	2929.5	2852.3	2754.1	2569.1	2405.3	2301.1	2293.5
42.5°	8532.0	7618.5	5043.6	3181.9	2707.9	2725.2	2605.7	2422.6	2322.3	2254.9	2247.2
45°	9146.8	7921.1	4735.3	2840.8	2544.0	2605.7	2476.6	2370.5	2310.8	2266.5	2254.9
47.5°	9811.8	8231.4	4388.4	2534.4	2405.3	2495.8	2422.6	2374.4	2341.6	2310.8	2297.3
50°	10528.7	8578.3	4062.7	2287.7	2280.0	2382.1	2416.8	2399.5	2380.2	2370.5	2359.0
52.5°	11315.0	8932.9	3789.0	2114.2	2170.1	2301.1	2418.7	2432.3	2432.3	2426.5	2418.7
55°	11846.9	9179.6	3511.5	1973.5	2058.3	2235.6	2414.8	2466.9	2486.2	2478.5	2470.8
57.5°	12240.1	9314.5	3162.7	1852.1	1963.9	2172.1	2393.7	2470.8	2490.0	2499.7	2495.8
60°	12321.1	9189.3	2705.9	1724.9	1861.7	2079.5	2316.6	2412.9	2438.0	2497.8	2503.5
62.5°	11956.8	8803.8	2251.0	1599.7	1736.5	1938.8	2212.5	2347.4	2397.5	2490.0	2499.7
64°	11509.7	8372.1	1998.6	1520.6	1655.5	1859.8	2160.4	2330.1	2395.6	2519.0	2526.6
65°	11182.0	8058.0	1840.5	1470.5	1603.5	1807.8	2131.6	2335.9	2412.9	2563.3	2574.8
67.5°	9975.6	6976.8	1522.5	1352.9	1480.2	1719.1	2137.3	2384.1	2409.1	2580.6	2578.7
70°	8254.5	5554.4	1275.9	1245.0	1360.7	1647.9	2114.2	2306.9	2308.9	2422.6	2395.6
72.5°	6180.8	4105.1	1106.3	1133.2	1227.7	1478.2	1996.6	2202.9	2170.1	2185.5	2158.5
75°	4245.8	2715.5	952.1	1013.7	1088.9	1306.7	1830.9	2000.5	1948.5	1929.2	1909.9
77.5°	2266.5	1501.4	792.1	896.2	946.3	1129.4	1597.7	1761.6	1707.6	1632.4	1607.3
80°	917.4	707.3	637.9	742.0	770.9	909.7	1329.8	1432.0	1391.5	1260.4	1218.0
82.5°	460.6	424.0	501.1	584.0	585.9	649.5	988.7	1085.1	994.5	834.5	797.9
85°	240.9	248.6	345.0	410.5	362.3	350.8	593.6	657.2	603.2	524.2	472.2
87.5°	86.7	100.2	181.2	179.2	127.2	67.4	131.0	63.6	34.6	21.2	27.0
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)