

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: P453621

Luminaire Tested: **GALN-SA4C-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453621
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-SA4C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 21905 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 213
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

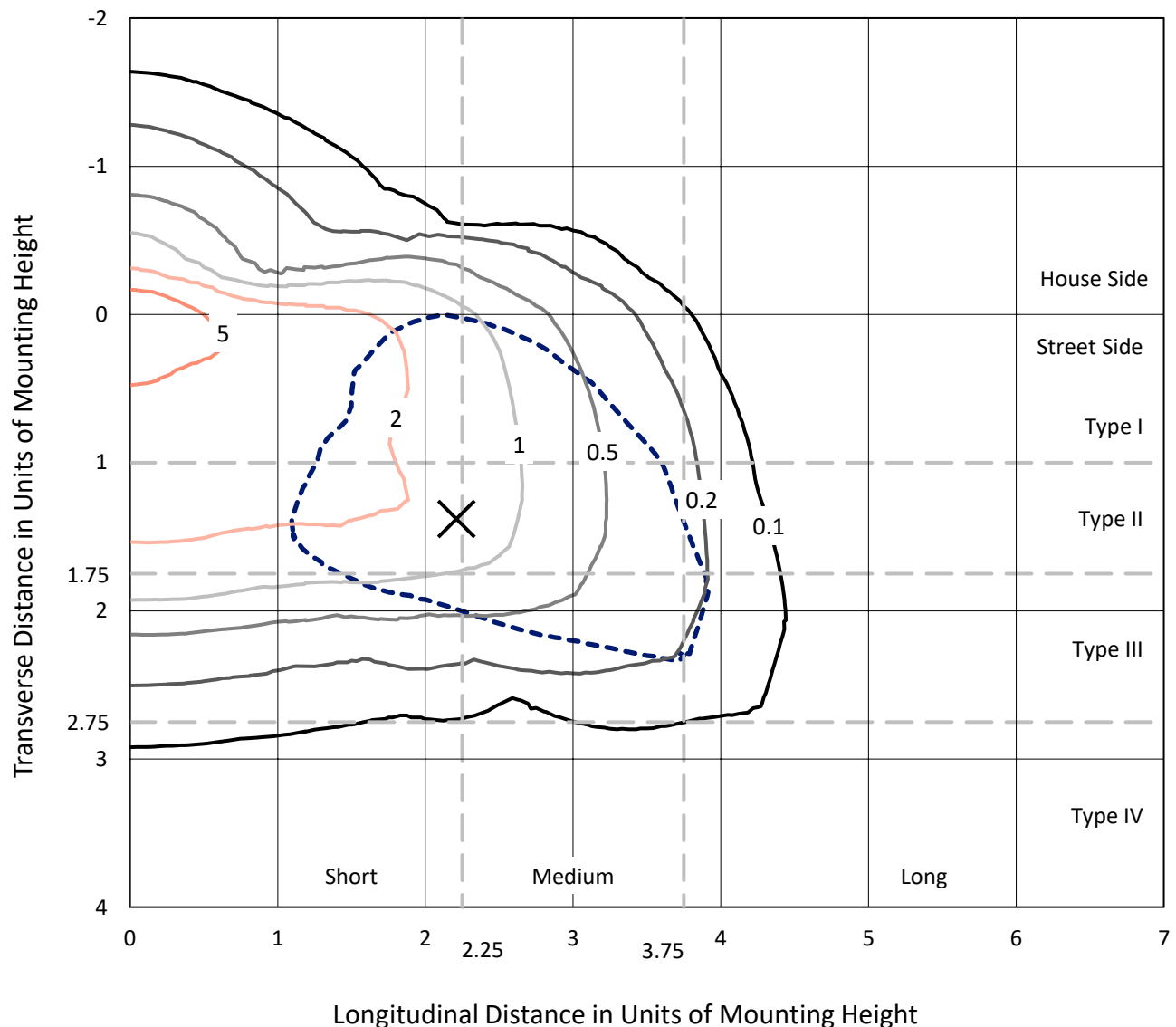


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

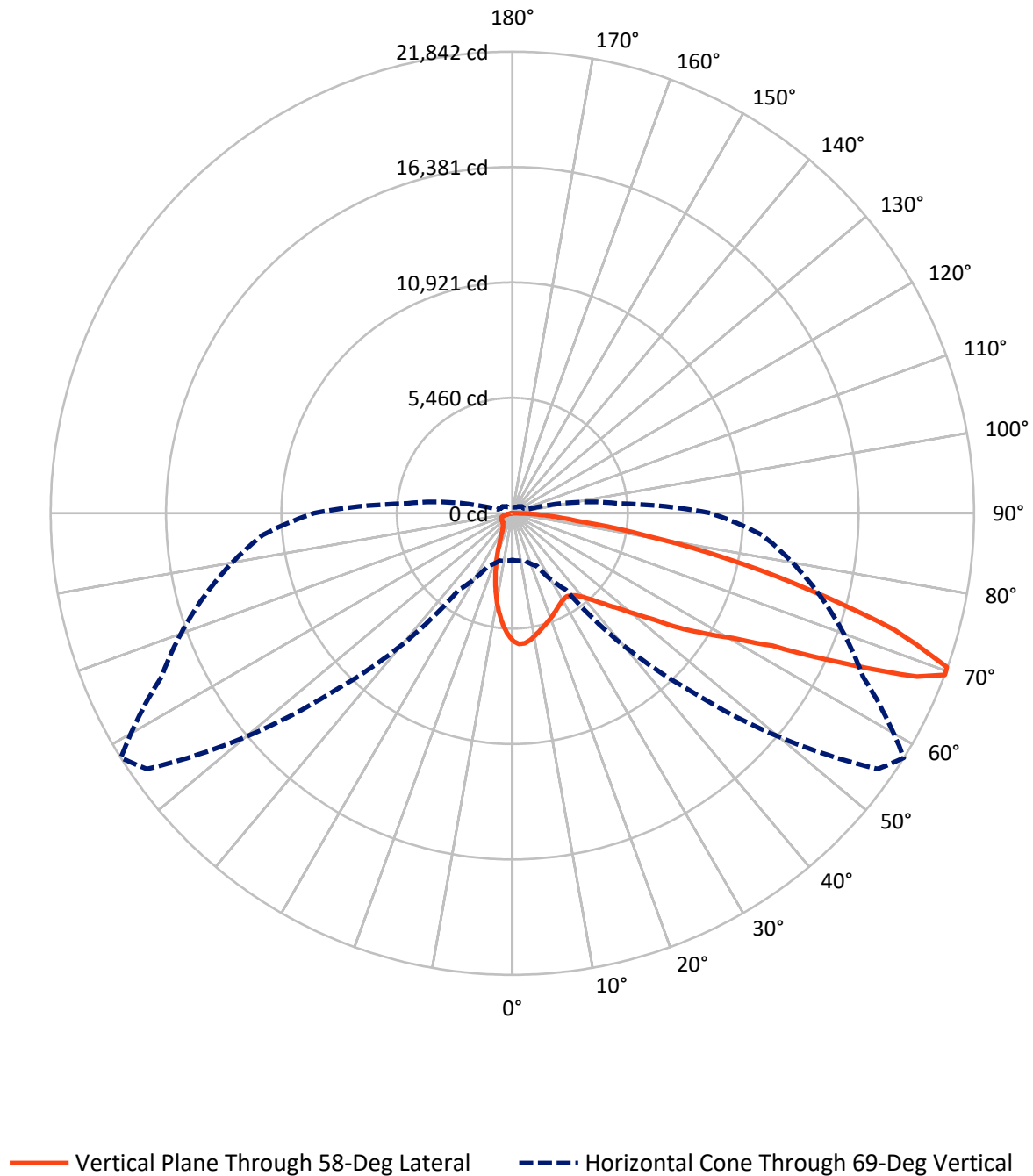


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3210.2	0.0	3210.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18694.8	0.0	18694.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	21905.0	0.0	21905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.1	2.3
10°-20°	1128.8	5.2
20°-30°	1458.4	6.7
30°-40°	1894.2	8.6
40°-50°	2753.9	12.6
50°-60°	4394.4	20.1
60°-70°	5870.3	26.8
70°-80°	3384.0	15.4
80°-90°	506.9	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°	21905.0	100.0
0°-180°	21905.0	100.0

Coefficient of Utilization



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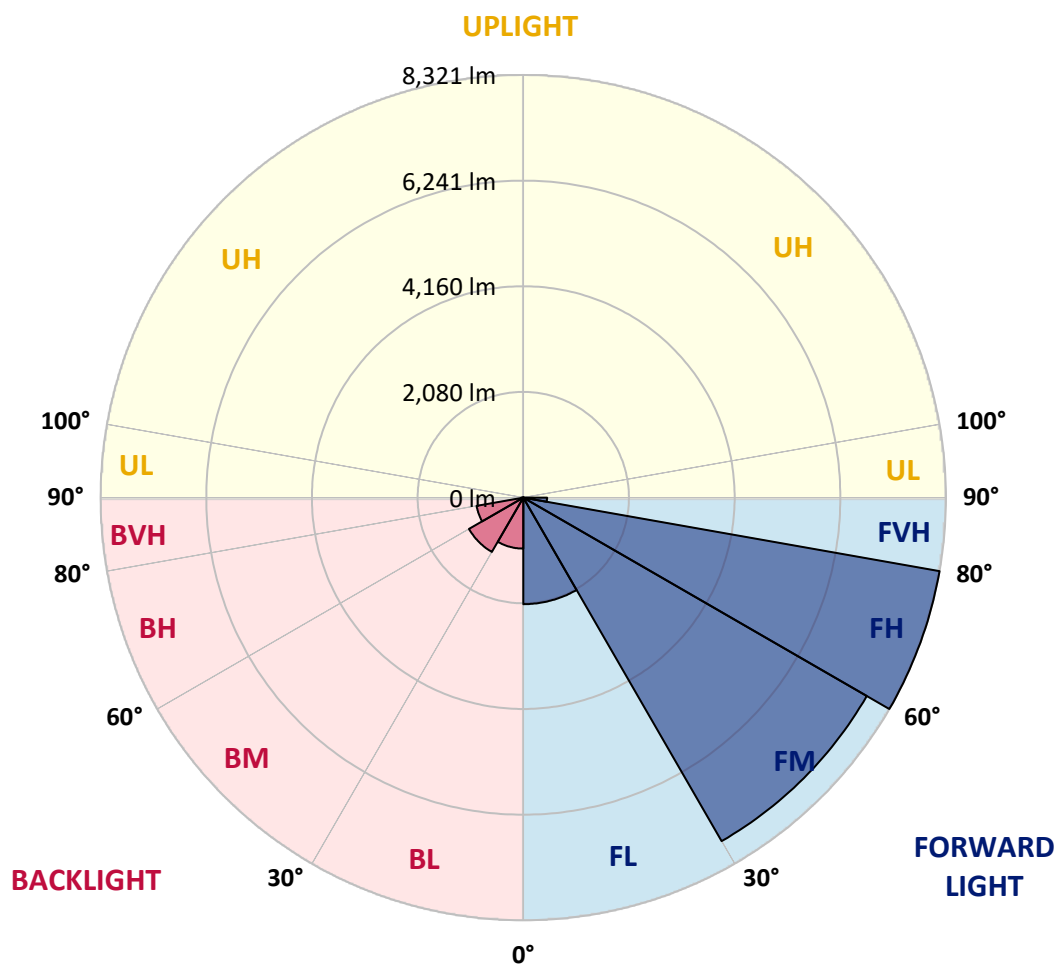
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2097.9	9.6			
FM	(30°-60°)	7808.0	35.6			
FH	(60°-80°)	8320.9	38.0			G4/12000
FVH	(80°-90°)	468.0	2.1			G3/500
BL	(0°-30°)	1003.4	4.6	B3/2500		
BM	(30°-60°)	1234.5	5.6	B2/2500		
BH	(60°-80°)	933.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	38.8	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3
2.5°	6278.0	6295.1	6290.3	6284.2	6274.4	6247.5	6203.5	6196.2	6168.1	6108.2	6033.7
5°	6181.5	6196.2	6197.4	6206.0	6218.2	6213.3	6181.5	6177.9	6136.3	6055.7	5931.1
7.5°	5850.5	5870.0	5912.8	5960.4	6003.2	6043.5	6053.3	6059.4	6033.7	5940.9	5774.7
10°	5477.9	5497.4	5517.0	5587.8	5692.9	5793.0	5876.1	5887.1	5893.2	5807.7	5604.9
12.5°	5064.9	5105.3	5146.8	5251.9	5392.3	5549.9	5696.5	5719.8	5761.3	5696.5	5458.3
15°	4714.3	4755.9	4815.7	4909.8	5079.6	5306.8	5513.3	5551.2	5633.0	5600.0	5321.5
17.5°	4471.2	4485.9	4527.4	4634.9	4818.2	5057.6	5333.7	5409.5	5540.2	5531.6	5204.2
20°	4279.4	4297.8	4323.4	4389.4	4580.0	4832.8	5166.3	5264.1	5441.2	5470.5	5088.2
22.5°	4198.8	4212.2	4208.6	4244.0	4373.5	4627.6	4996.5	5112.6	5353.3	5429.0	4980.7
25°	4203.7	4215.9	4197.6	4189.0	4266.0	4446.8	4819.4	4967.2	5282.4	5400.9	4882.9
27.5°	4285.5	4294.1	4259.9	4225.7	4231.8	4334.4	4672.8	4836.5	5222.5	5413.1	4801.1
30°	4395.5	4411.4	4389.4	4347.8	4302.6	4307.5	4578.7	4740.0	5194.4	5455.9	4762.0
32.5°	4537.2	4551.9	4542.1	4509.1	4450.5	4385.7	4555.5	4704.6	5196.9	5542.6	4753.4
35°	4686.2	4715.6	4731.4	4729.0	4681.4	4569.0	4647.1	4770.5	5255.5	5688.0	4803.5
37.5°	4854.8	4879.3	4947.7	4991.6	4947.7	4817.0	4853.6	4939.1	5385.0	5898.1	4913.5
40°	5018.5	5055.2	5155.3	5292.2	5275.1	5160.2	5168.8	5225.0	5613.5	6210.9	5128.5
42.5°	5189.6	5233.5	5408.2	5611.0	5651.3	5562.2	5585.4	5635.5	5938.4	6644.5	5497.4
45°	5409.5	5462.0	5677.0	5929.9	6088.7	6033.7	6099.7	6124.1	6373.3	7208.9	5983.6
47.5°	5692.9	5754.0	6019.1	6334.2	6559.0	6609.1	6723.9	6709.3	6912.1	7877.2	6614.0
50°	6170.5	6204.7	6455.2	6776.5	7085.6	7311.6	7436.2	7459.4	7580.3	8527.1	7318.9
52.5°	6738.6	6769.1	6949.9	7230.9	7618.2	8097.1	8404.9	8329.2	8358.5	9318.7	8143.5
55°	7377.5	7428.8	7543.7	7730.6	8232.7	8937.6	9555.7	9574.0	9249.1	10076.1	8933.9
57.5°	7872.3	7959.0	8155.7	8422.0	9058.5	9872.1	10702.8	10715.1	10299.7	10884.9	9806.2
60°	7623.1	7725.7	8175.3	8824.0	10142.1	11503.0	12073.5	12003.9	11322.2	11806.0	10870.2
62.5°	6548.0	6566.4	7219.9	8233.9	10475.6	13684.9	14113.7	13819.3	12686.8	12973.9	11951.4
65°	4237.9	4357.6	4875.6	6296.4	9379.8	14895.5	17688.2	17007.8	14599.9	14299.4	12856.6
67.5°	2675.4	2644.9	2859.9	3595.3	6451.5	13829.0	20738.7	20631.2	17101.8	15136.2	12640.4
69°	2218.5	2252.7	2326.0	2756.0	4439.5	11807.2	21099.1	21841.8	18314.9	15070.2	11854.9
70°	2012.1	2027.9	2104.9	2443.3	3425.5	9889.2	20507.8	21808.8	18791.4	14794.1	11285.6
72.5°	1596.7	1595.5	1727.4	2032.8	2560.6	5645.2	16839.2	18934.3	18258.7	13509.0	9324.8
75°	1213.1	1232.6	1378.0	1720.1	2359.0	3084.7	11751.0	14581.6	14582.8	10669.9	5818.7
77.5°	874.7	886.9	1056.7	1444.0	2222.2	2500.7	7827.1	10458.5	9831.8	4889.0	1828.8
80°	573.0	580.3	709.8	1143.5	2003.5	2359.0	4641.0	6401.4	4637.4	1297.4	604.7
82.5°	314.0	350.6	433.7	740.3	1607.7	2179.4	2820.8	3239.8	1739.6	577.8	315.2
85°	157.6	167.4	244.3	432.5	1050.6	1803.2	1964.4	1858.1	897.9	287.1	163.7
87.5°	46.4	58.6	101.4	167.4	426.4	939.4	1093.4	981.0	345.7	103.8	34.2
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°	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3	6053.3
2.5°	6003.2	5981.2	5883.5	5795.5	5714.9	5629.3	5557.3	5493.7	5499.9	5501.1	5436.3
5°	5866.3	5816.3	5630.6	5457.1	5310.5	5124.8	4966.0	4863.4	4812.1	4743.7	4768.1
7.5°	5680.7	5584.1	5326.4	5038.1	4768.1	4527.4	4266.0	4086.4	3971.6	3860.4	3875.1
10°	5488.9	5333.7	4958.7	4577.5	4228.1	3843.3	3509.8	3223.9	3011.4	2932.0	2879.4
12.5°	5292.2	5088.2	4611.7	4104.7	3622.2	3161.6	2688.8	2382.2	2147.7	2023.0	2038.9
15°	5112.6	4864.6	4250.1	3632.0	3005.3	2456.7	1985.2	1693.2	1529.5	1495.3	1514.8
17.5°	4946.4	4621.5	3911.7	3172.6	2440.9	1842.2	1491.6	1326.7	1260.7	1242.4	1241.2
20°	4775.4	4415.0	3531.8	2681.5	1902.1	1428.1	1224.1	1147.1	1134.9	1142.2	1143.5
22.5°	4601.9	4159.7	3140.9	2194.1	1514.8	1167.9	1070.2	1049.4	1059.2	1076.3	1078.7
25°	4441.9	3934.9	2764.6	1766.5	1209.4	1026.2	978.5	978.5	1000.5	1026.2	1027.4
27.5°	4310.0	3717.5	2389.5	1402.5	1012.7	923.6	907.7	916.2	946.8	966.3	967.5
30°	4201.2	3514.7	2035.3	1123.9	890.6	841.7	838.0	852.7	874.7	893.0	894.2
32.5°	4119.4	3336.3	1704.2	944.3	806.3	779.4	778.2	789.2	801.4	806.3	811.2
35°	4087.6	3188.5	1401.2	830.7	750.1	733.0	733.0	731.8	736.7	739.1	741.5
37.5°	4113.3	3074.9	1166.7	757.4	708.6	696.3	689.0	681.7	679.2	679.2	680.5
40°	4222.0	3015.0	992.0	709.8	679.2	660.9	647.5	638.9	630.4	632.8	635.3
42.5°	4452.9	3026.0	873.5	678.0	653.6	627.9	608.4	598.6	592.5	599.8	598.6
45°	4820.6	3136.0	797.7	656.0	627.9	594.9	576.6	566.8	566.8	577.8	581.5
47.5°	5334.9	3346.1	757.4	638.9	608.4	569.3	551.0	543.6	546.1	564.4	565.6
50°	5962.9	3711.4	750.1	630.4	598.6	551.0	530.2	522.9	529.0	548.5	551.0
52.5°	6655.5	4181.7	785.5	631.6	590.1	540.0	513.1	502.1	508.2	524.1	529.0
55°	7476.5	4770.5	877.1	636.5	577.8	533.9	500.9	476.4	483.8	494.8	496.0
57.5°	8314.5	5513.3	1038.4	637.7	568.1	522.9	480.1	448.3	448.3	455.7	459.3
60°	9338.3	6322.0	1251.0	638.9	569.3	507.0	452.0	416.6	411.7	415.4	416.6
62.5°	10354.7	6998.8	1286.4	635.3	581.5	491.1	421.5	384.8	376.3	375.0	372.6
65°	10803.0	6873.0	1054.3	618.2	594.9	481.3	397.0	354.3	339.6	334.7	334.7
67.5°	10072.5	5813.8	792.8	594.9	586.4	471.6	373.8	328.6	311.5	301.7	301.7
69°	9385.9	5171.2	712.2	579.1	564.4	455.7	359.2	315.2	294.4	283.4	279.8
70°	8855.7	4729.0	678.0	565.6	543.6	437.3	348.2	305.4	282.2	270.0	267.5
72.5°	7067.2	3710.1	593.7	514.3	463.0	367.7	309.1	274.9	252.9	239.4	235.8
75°	4073.0	2010.8	492.3	447.1	372.6	285.9	261.4	239.4	222.3	210.1	206.5
77.5°	1253.4	777.0	356.7	353.1	273.6	221.1	208.9	200.4	188.1	174.7	172.3
80°	527.8	395.8	241.9	238.2	182.0	153.9	150.3	149.0	144.2	133.2	129.5
82.5°	289.5	223.6	168.6	146.6	109.9	89.2	92.8	94.1	90.4	79.4	72.1
85°	141.7	122.2	81.9	66.0	50.1	31.8	30.5	36.6	34.2	24.4	26.9
87.5°	28.1	34.2	22.0	9.8	4.9	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)