

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: P193703

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 19616 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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: 25 FT

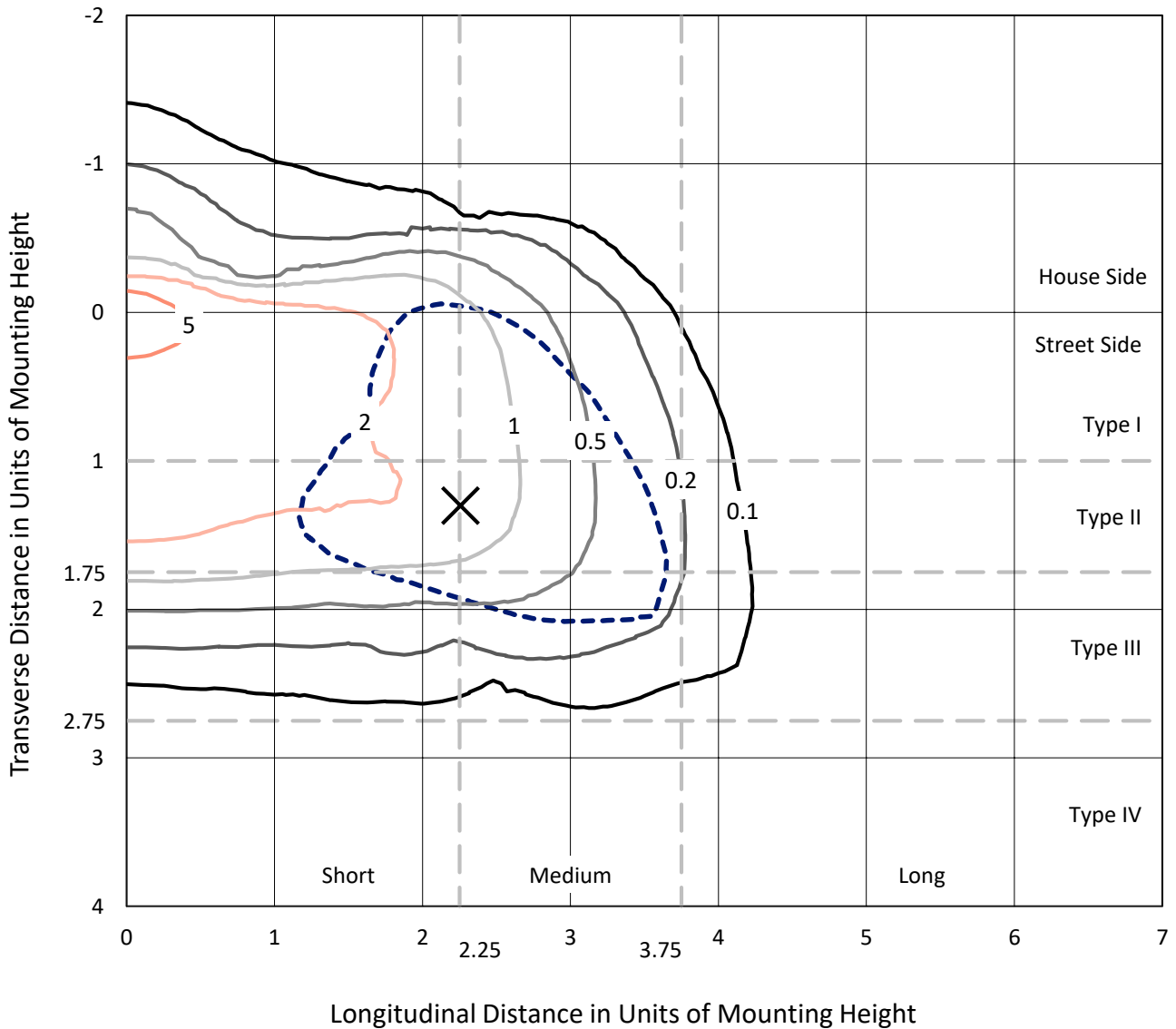


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Iso-Footcandle Lines of Horizontal Illumination

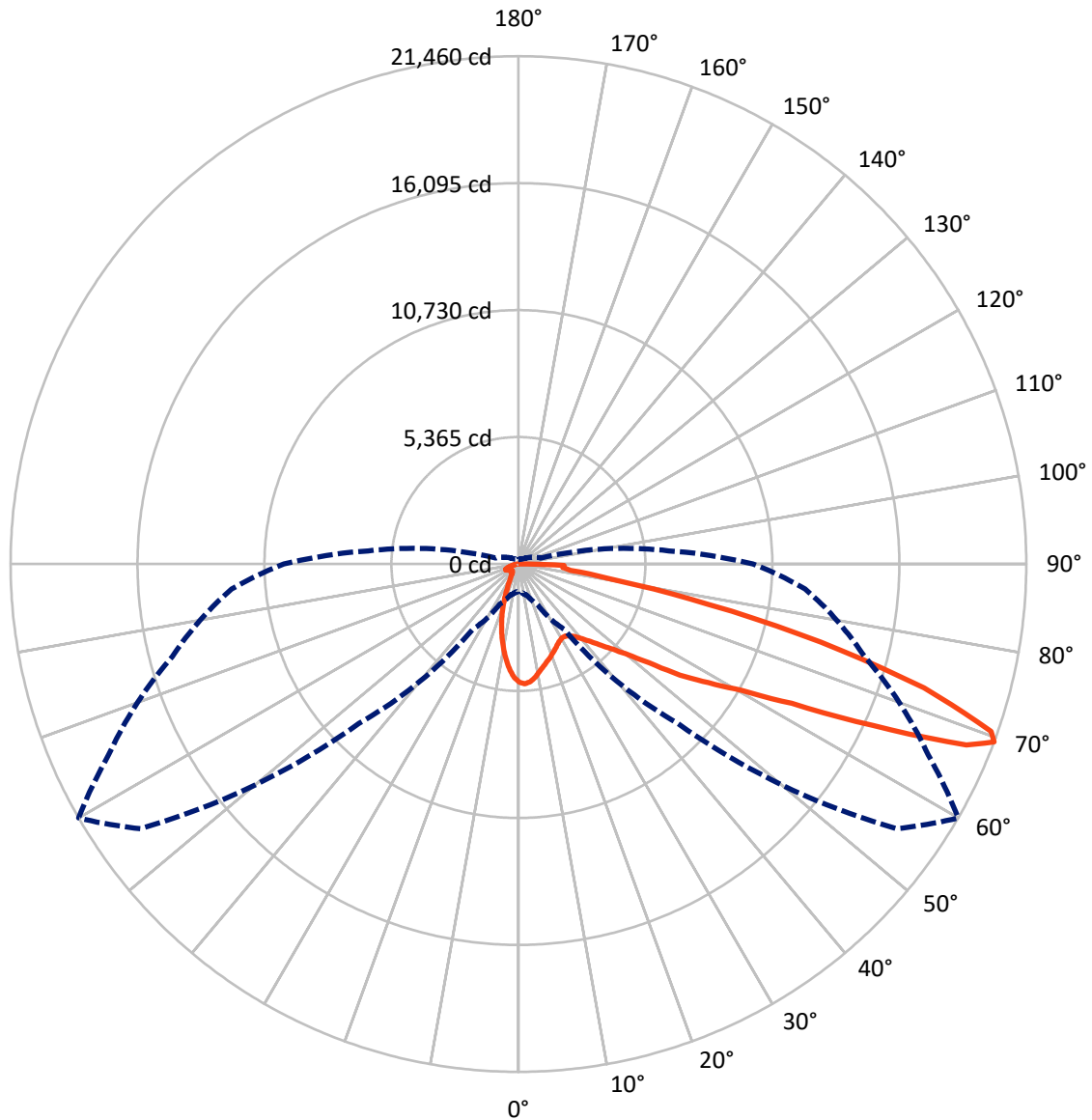
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2790.7	0.0	2790.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16825.3	0.0	16825.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	19616.0	0.0	19616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.6	2.2
10°-20°	900.5	4.6
20°-30°	1147.3	5.8
30°-40°	1577.3	8.0
40°-50°	2559.3	13.0
50°-60°	4104.5	20.9
60°-70°	5462.8	27.8
70°-80°	2949.5	15.0
80°-90°	492.1	2.5
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°	19616.0	100.0
0°-180°	19616.0	100.0

Coefficient of Utilization



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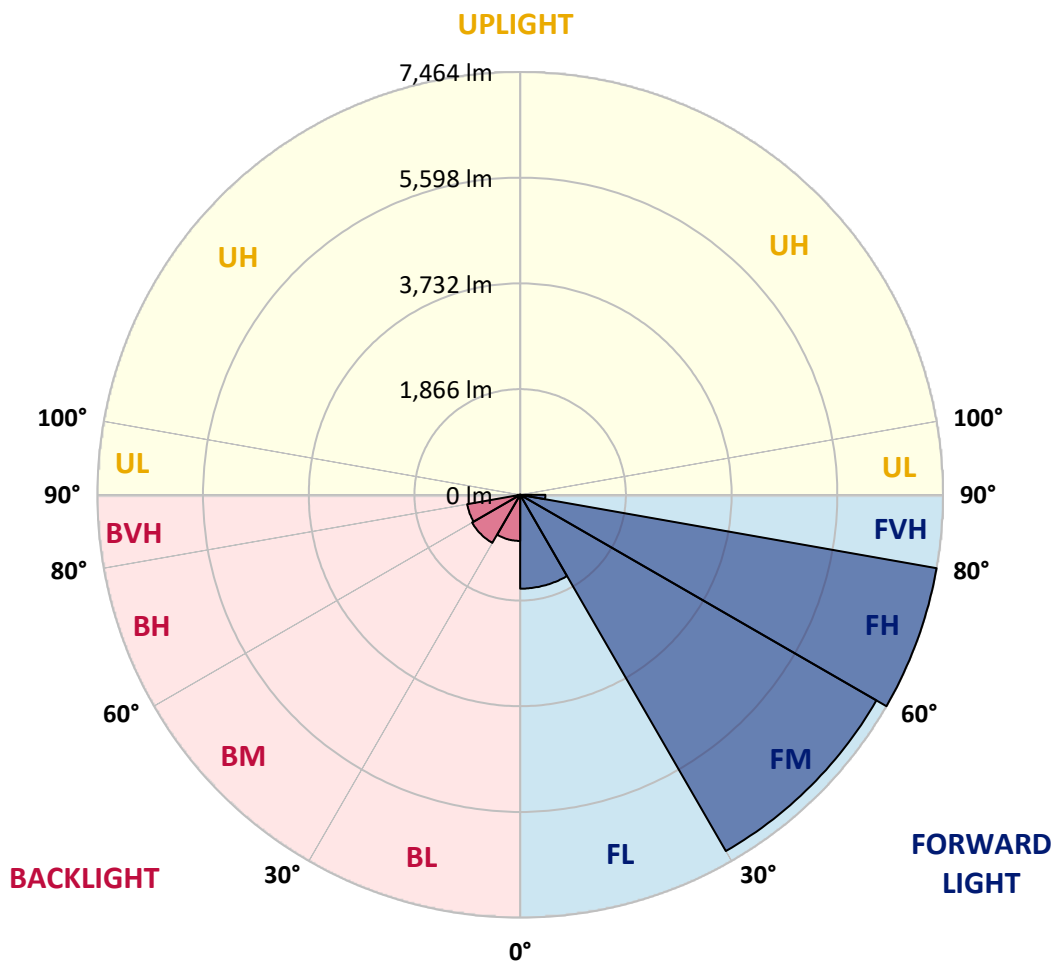
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1656.3	8.4			
FM	(30°-60°)	7260.7	37.0			
FH	(60°-80°)	7463.5	38.0			G3/7500
FVH	(80°-90°)	444.8	2.3			G3/500
BL	(0°-30°)	814.1	4.2	B2/1000		
BM	(30°-60°)	980.4	5.0	B1/1000		
BH	(60°-80°)	948.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	47.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5
2.5°	5100.8	5112.2	5107.4	5104.6	5113.1	5099.8	5072.4	5063.8	5050.6	5019.3	4966.2
5°	4909.4	4943.5	4941.6	4967.2	5009.8	5021.2	5008.9	5010.8	4986.1	4947.3	4859.2
7.5°	4578.7	4592.9	4600.5	4656.4	4734.1	4796.6	4849.7	4866.7	4855.4	4822.2	4708.5
10°	4237.6	4248.9	4266.9	4332.3	4430.9	4517.1	4617.5	4675.3	4700.0	4694.3	4567.3
12.5°	3944.8	3956.1	3979.8	4053.7	4171.2	4277.4	4423.3	4495.3	4554.0	4589.1	4452.7
15°	3682.3	3706.9	3729.7	3814.9	3946.6	4085.9	4250.8	4341.8	4432.8	4511.4	4351.3
17.5°	3477.6	3502.2	3515.5	3593.2	3733.4	3904.0	4097.3	4204.4	4318.1	4447.0	4250.8
20°	3359.2	3370.5	3364.8	3408.4	3534.5	3715.4	3944.8	4068.9	4206.3	4386.3	4150.4
22.5°	3326.0	3326.9	3306.1	3301.3	3382.8	3535.4	3781.8	3932.4	4101.1	4346.5	4064.1
25°	3406.5	3403.7	3346.8	3300.4	3308.9	3398.0	3624.5	3799.8	4013.0	4338.0	3997.8
27.5°	3585.6	3594.1	3509.8	3422.6	3336.4	3333.6	3505.1	3689.9	3941.0	4376.8	3969.4
30°	3836.7	3850.9	3760.9	3650.1	3488.0	3354.4	3458.6	3624.5	3896.4	4457.4	3964.7
32.5°	4111.5	4126.7	4058.5	3941.9	3729.7	3483.3	3490.9	3630.2	3894.5	4570.2	3996.9
35°	4404.3	4421.4	4386.3	4287.8	4051.8	3721.1	3614.0	3722.1	3956.1	4742.6	4083.1
37.5°	4731.2	4757.8	4767.2	4673.4	4421.4	4034.8	3815.9	3896.4	4095.4	4982.3	4241.3
40°	5202.2	5239.1	5236.3	5101.7	4844.9	4458.3	4127.6	4148.5	4312.4	5302.6	4494.3
42.5°	6104.3	6111.9	5875.9	5583.1	5311.2	4903.7	4495.3	4478.2	4611.8	5708.2	4866.7
45°	7251.8	7220.5	6695.6	6129.9	5798.2	5415.4	4973.8	4890.4	4991.8	6202.8	5332.9
47.5°	8204.1	8132.1	7468.8	6688.0	6313.7	5971.6	5535.7	5389.8	5445.7	6763.8	5935.6
50°	8534.8	8480.8	7931.2	7152.3	6801.7	6650.1	6227.5	6020.9	6036.0	7432.8	6641.5
52.5°	8463.7	8456.2	8089.4	7458.4	7258.4	7362.7	7207.3	6927.7	6779.9	8175.7	7403.4
55°	8296.0	8312.1	8179.5	7814.6	7780.5	8050.6	8487.4	8280.9	7821.3	8925.2	8190.8
57.5°	7713.3	7754.9	8046.8	8262.8	8621.0	9022.8	9518.4	9459.6	8942.3	9735.4	9127.0
60°	6214.2	6310.8	7093.5	8175.7	9486.2	10742.7	10964.4	10827.9	10098.3	10740.8	10363.6
62.5°	4354.1	4454.5	5385.1	7078.4	9344.0	12685.2	13549.4	12960.9	11758.5	12221.8	11964.1
65°	2331.0	2379.4	3090.0	4911.3	7888.6	13086.0	17327.3	16431.9	14387.0	14047.8	13333.3
67.5°	1285.9	1312.4	1584.3	2479.8	5052.5	11523.5	19734.2	20410.8	17672.3	15263.5	13084.1
69°	1162.7	1187.3	1365.5	1878.1	3380.9	9527.9	19499.2	21459.7	19112.6	15143.2	12163.1
70°	1137.1	1159.8	1320.0	1731.2	2736.6	7853.5	18711.8	21191.6	19455.6	14712.0	11359.5
72.5°	1023.4	1048.0	1203.4	1555.0	2338.6	3915.4	14822.0	17917.7	17663.7	12756.2	8616.3
75°	954.2	976.9	1240.4	1522.8	2239.1	2477.9	9771.4	13205.4	12984.6	8923.3	4646.0
77.5°	408.4	406.5	575.2	1288.7	2272.3	2399.3	5250.5	8249.6	7526.6	3814.0	1334.2
80°	272.9	268.2	272.9	379.0	2083.7	2412.5	2750.8	4187.3	3163.0	972.2	657.6
82.5°	235.0	231.2	239.7	231.2	732.5	2753.7	2338.6	2226.8	1503.8	552.4	326.0
85°	158.2	151.6	206.6	207.5	345.9	2446.6	2634.3	1880.9	1216.7	327.9	161.1
87.5°	75.8	73.9	120.3	146.9	202.8	994.0	2955.5	1927.4	1227.1	167.7	76.8
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°	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5	4998.5
2.5°	4950.1	4911.3	4873.4	4827.9	4780.5	4727.4	4700.9	4674.4	4667.8	4660.2	4633.6
5°	4813.7	4758.7	4664.0	4559.7	4449.8	4342.7	4261.2	4210.1	4171.2	4151.3	4116.3
7.5°	4637.4	4556.9	4391.1	4211.0	4026.2	3857.6	3711.6	3619.7	3532.6	3491.8	3445.4
10°	4469.7	4349.4	4091.6	3826.3	3561.0	3306.1	3066.4	2896.7	2746.1	2661.7	2602.0
12.5°	4325.7	4160.8	3803.6	3444.4	3080.6	2717.6	2358.5	2076.1	1840.2	1716.1	1652.6
15°	4185.4	3986.4	3529.7	3073.9	2606.8	2113.1	1641.2	1320.9	1125.7	1048.0	1021.5
17.5°	4058.5	3803.6	3254.9	2700.6	2117.8	1520.9	1103.0	926.7	851.9	826.3	817.8
20°	3921.1	3618.8	2969.7	2310.2	1608.0	1063.2	861.3	783.6	753.3	745.7	742.0
22.5°	3788.4	3436.9	2696.8	1892.3	1155.1	820.6	740.1	707.8	703.1	709.7	709.7
25°	3675.6	3273.9	2402.1	1455.5	848.1	690.8	662.4	654.8	672.8	697.4	702.2
27.5°	3591.3	3140.3	2088.5	1074.5	675.6	600.8	599.8	612.1	656.7	704.0	713.5
30°	3533.5	3013.3	1753.0	775.1	566.6	528.7	543.9	570.4	635.8	703.1	721.1
32.5°	3504.1	2919.5	1403.4	599.8	485.2	464.3	489.9	522.1	586.5	649.1	672.8
35°	3526.9	2850.3	1073.6	500.3	428.3	412.2	438.7	470.0	507.9	534.4	552.4
37.5°	3612.2	2822.8	810.2	448.2	389.5	374.3	395.1	413.1	428.3	435.9	444.4
40°	3796.0	2852.2	649.1	421.7	367.7	348.7	357.2	363.9	373.3	380.9	384.7
42.5°	4067.0	2940.3	581.8	411.2	356.3	328.8	326.9	329.8	342.1	356.3	359.1
45°	4446.0	3095.7	577.1	417.9	350.6	312.7	304.2	308.0	326.9	348.7	352.5
47.5°	4930.2	3332.6	615.0	437.8	355.3	304.2	290.0	294.7	318.4	347.8	352.5
50°	5516.8	3663.3	678.5	467.2	376.2	306.1	285.2	288.1	312.7	344.9	349.7
52.5°	6209.5	4132.4	747.6	495.6	398.0	318.4	289.0	282.4	305.1	333.5	339.2
55°	6979.8	4734.1	818.7	521.2	409.4	333.5	296.6	274.8	290.9	314.6	319.3
57.5°	7925.5	5575.5	941.9	545.8	416.9	344.0	304.2	267.2	272.9	290.0	293.7
60°	9205.7	6765.7	1158.9	586.5	434.0	347.8	303.2	260.6	254.9	264.4	266.3
62.5°	10739.8	8058.2	1339.9	637.7	462.4	350.6	297.5	255.8	239.7	239.7	241.6
65°	11650.4	8404.0	1239.4	680.4	486.1	347.8	290.9	251.1	228.4	217.9	218.9
67.5°	10878.2	7391.1	1062.2	688.9	485.2	334.5	280.5	242.6	217.0	200.9	199.9
69°	9910.7	6377.2	982.6	666.1	462.4	317.4	267.2	233.1	208.5	191.4	190.5
70°	9130.8	5758.4	930.5	641.5	437.8	305.1	256.8	224.6	201.8	185.7	183.8
72.5°	6638.7	3773.2	795.0	551.5	361.0	255.8	221.7	197.1	180.0	170.6	168.7
75°	3317.5	1799.4	645.3	447.3	276.7	204.7	181.9	164.9	156.3	154.5	153.5
77.5°	1089.7	824.4	461.5	333.5	205.6	160.1	146.9	134.6	132.7	138.3	136.5
80°	598.9	479.5	292.8	220.8	140.2	117.5	115.6	109.0	111.8	121.3	119.4
82.5°	305.1	249.2	181.0	132.7	94.8	84.3	91.9	88.1	91.9	100.4	99.5
85°	150.7	136.5	114.7	80.5	62.5	54.0	65.4	68.2	70.1	76.8	76.8
87.5°	87.2	80.5	60.6	37.9	31.3	28.4	37.9	37.0	43.6	47.4	46.4
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)