

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: P193633

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23782 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

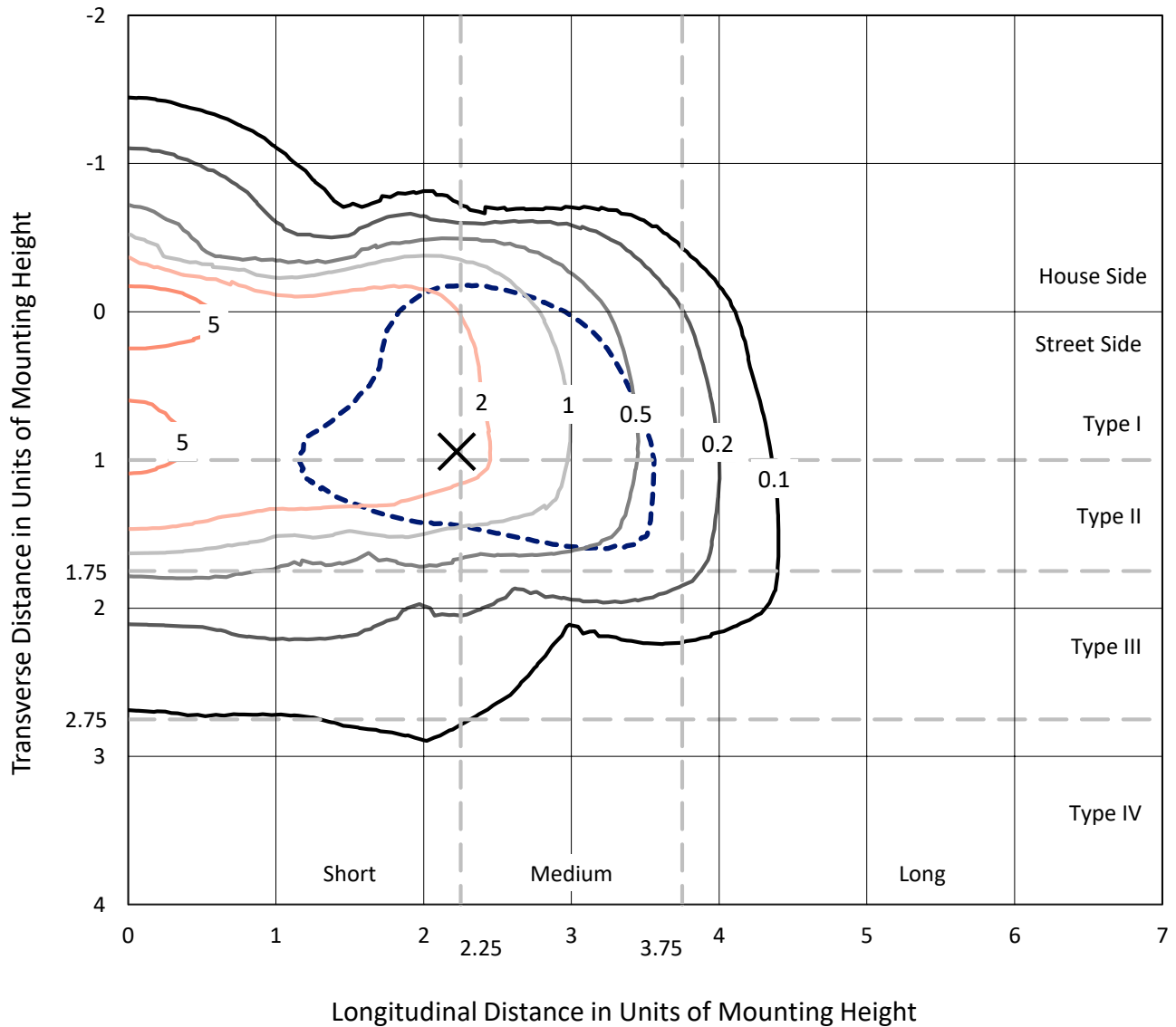
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

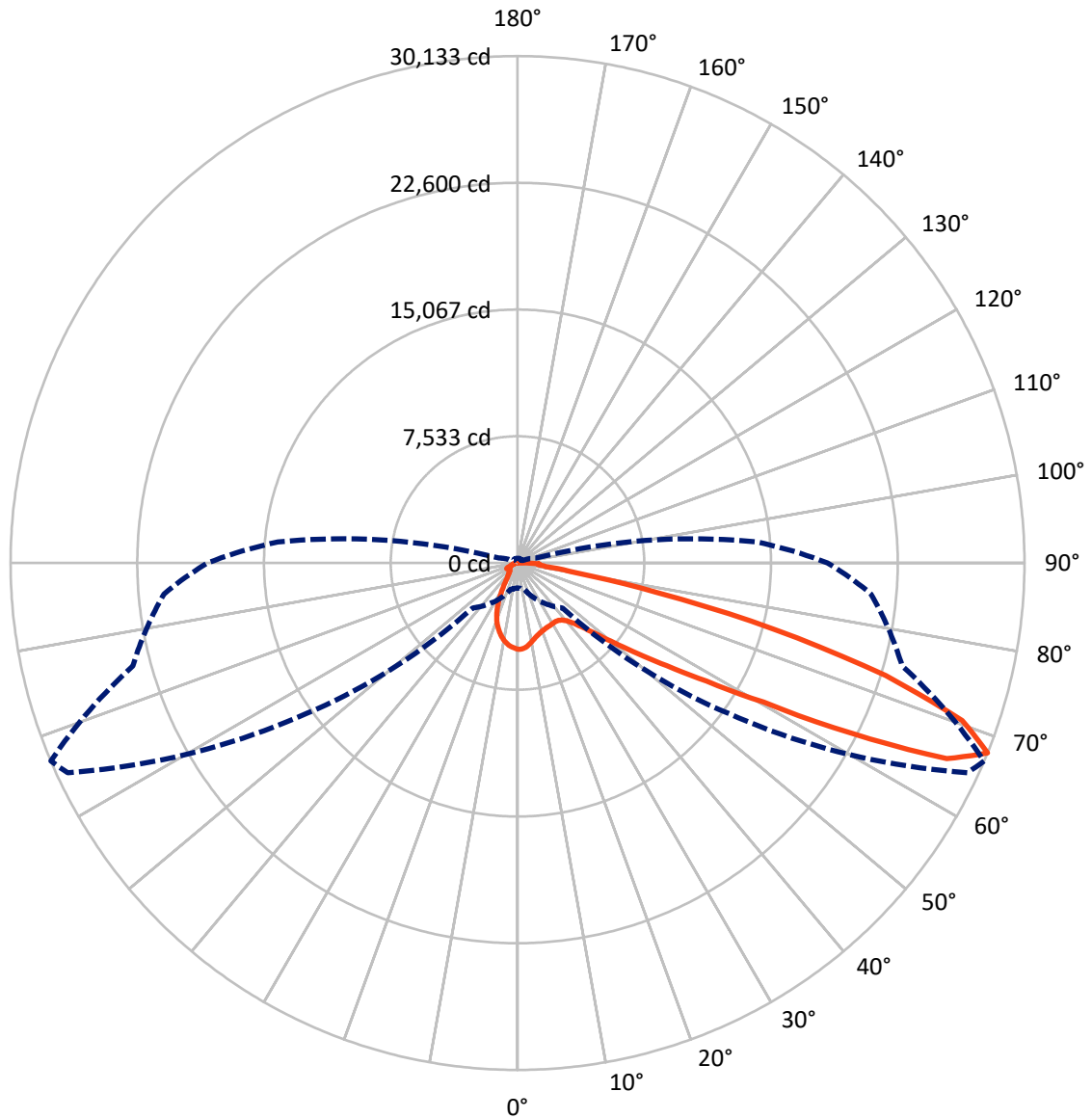
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3940.4	0.0	3940.4
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	19841.6	0.0	19841.6
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	23782.0	0.0	23782.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.6	1.8
10°-20°	1012.6	4.3
20°-30°	1372.6	5.8
30°-40°	1951.4	8.2
40°-50°	3264.7	13.7
50°-60°	5164.7	21.7
60°-70°	6579.3	27.7
70°-80°	3446.2	14.5
80°-90°	552.7	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°	23782.0	100.0
0°-180°	23782.0	100.0



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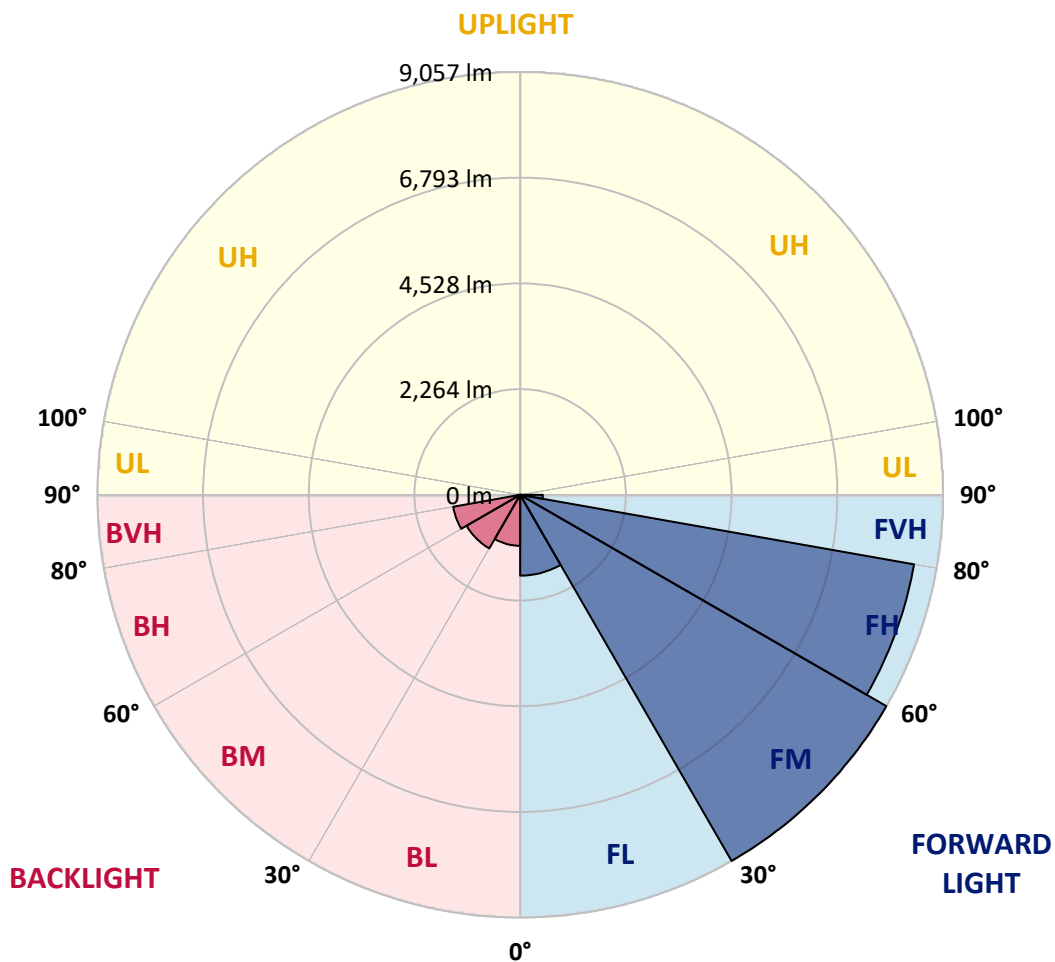
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1730.8	7.3			
FM	(30°-60°)	9056.7	38.1			
FH	(60°-80°)	8568.2	36.0			G4/12000
FVH	(80°-90°)	486.0	2.0			G3/500
BL	(0°-30°)	1092.2	4.6	B3/2500		
BM	(30°-60°)	1324.1	5.6	B2/2500		
BH	(60°-80°)	1457.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	66.7	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7
2.5°	4918.6	4926.8	4952.6	4969.0	5042.9	5074.6	5096.9	5119.2	5122.7	5133.2	5122.7
5°	4402.6	4420.2	4468.3	4522.2	4665.3	4777.9	4896.3	5019.5	5041.8	5121.5	5143.8
7.5°	4002.7	3998.0	4037.9	4102.4	4249.0	4404.9	4612.5	4857.6	4905.7	5085.2	5171.9
10°	3710.7	3707.1	3749.4	3816.2	3955.8	4103.5	4338.1	4673.5	4741.5	5027.7	5198.9
12.5°	3494.9	3496.0	3538.3	3612.1	3754.1	3903.0	4141.1	4495.2	4582.0	4960.8	5227.1
15°	3351.8	3361.2	3395.2	3473.8	3612.1	3761.1	3994.5	4361.6	4458.9	4908.1	5258.7
17.5°	3303.7	3319.0	3330.7	3388.1	3506.6	3655.5	3884.2	4263.0	4366.2	4871.7	5286.9
20°	3348.3	3365.9	3343.6	3363.5	3438.6	3569.9	3797.4	4185.6	4291.2	4830.7	5290.4
22.5°	3539.4	3555.9	3490.2	3432.7	3428.0	3507.8	3725.9	4124.7	4233.7	4800.2	5291.6
25°	3876.0	3886.6	3776.3	3642.6	3512.5	3485.5	3675.5	4082.4	4198.5	4773.2	5269.3
27.5°	4288.8	4297.0	4170.4	3973.4	3711.8	3538.3	3657.9	4057.8	4178.6	4749.7	5231.8
30°	4790.8	4829.5	4659.4	4410.8	4029.7	3694.2	3693.1	4044.9	4156.3	4709.9	5157.9
32.5°	5304.5	5320.9	5203.6	4951.5	4457.7	3968.7	3791.6	4054.3	4150.5	4661.8	5064.0
35°	5825.2	5846.3	5770.1	5567.2	5042.9	4370.9	3983.9	4109.4	4186.8	4645.4	4998.4
37.5°	6499.5	6527.7	6422.1	6187.6	5754.8	4916.3	4304.1	4247.8	4298.2	4692.3	4978.4
40°	7565.6	7552.7	7244.2	6894.7	6533.5	5614.1	4761.5	4482.3	4511.7	4843.6	5039.4
42.5°	8806.4	8774.7	8243.4	7694.6	7389.7	6458.5	5366.6	4889.3	4883.4	5141.4	5254.0
45°	9796.2	9770.4	9291.9	8615.2	8371.3	7420.1	6148.9	5495.6	5452.2	5614.1	5650.4
47.5°	10332.2	10333.3	10057.7	9505.3	9499.5	8642.2	7153.9	6372.9	6297.8	6374.0	6335.3
50°	10144.5	10169.1	10139.8	9963.9	10529.2	10244.2	8466.3	7596.1	7444.8	7519.8	7370.9
52.5°	9236.8	9268.4	9442.0	9711.8	10961.9	12180.4	10394.3	9116.0	8940.1	8913.1	8747.7
55°	7627.7	7666.4	8020.6	8753.6	10601.9	13481.1	13436.5	11053.4	10773.1	10518.6	10448.3
57.5°	5257.6	5322.1	5892.0	6980.4	9437.3	13873.9	17059.2	13815.3	13245.3	12356.4	12372.8
60°	2963.6	3038.7	3710.7	4699.3	7087.1	13447.0	19815.2	17998.6	16795.3	14508.4	14630.4
62.5°	1884.6	1965.6	2475.7	3265.0	4252.5	11148.4	20944.6	23814.4	22286.2	17161.2	17280.8
65°	1525.8	1561.0	1801.4	2695.0	3087.9	6716.5	20087.3	28605.2	28035.2	20528.3	19970.0
67.5°	1489.4	1501.2	1625.5	2262.3	2961.3	3775.2	16022.5	29501.2	30133.3	23672.5	21090.0
70°	1471.8	1512.9	1831.9	2159.1	2835.8	3184.1	9628.5	27045.4	28043.4	24494.6	19599.4
72.5°	714.2	711.9	921.8	1952.7	3194.6	3302.5	4946.8	21882.8	22884.4	21221.4	16105.7
75°	575.8	526.6	503.1	715.4	3071.5	3410.4	3152.4	15057.3	15782.0	14228.1	9900.6
77.5°	546.5	487.9	446.8	448.0	1298.3	3616.8	2670.4	8333.7	8544.8	6426.8	2712.6
80°	452.7	398.7	369.4	416.3	628.6	3444.4	2887.4	3771.6	3460.9	1578.6	903.0
82.5°	314.3	286.2	277.9	349.5	503.1	2454.6	3357.7	2026.6	1699.4	790.5	557.1
85°	200.5	171.2	190.0	254.5	391.7	1132.9	3458.5	1579.7	1256.0	501.9	314.3
87.5°	92.6	75.1	93.8	140.7	255.7	390.5	3290.8	1774.4	1293.6	265.0	198.2
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°	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7	5129.7
2.5°	5132.1	5109.8	5092.2	5059.4	5023.0	4987.8	4956.1	4916.3	4904.5	4894.0	4910.4
5°	5148.5	5126.2	5061.7	4960.8	4849.4	4745.0	4640.7	4551.5	4496.4	4465.9	4483.5
7.5°	5173.1	5141.4	5007.8	4822.5	4621.9	4439.0	4250.1	4098.8	3987.4	3934.7	3949.9
10°	5195.4	5134.4	4916.3	4638.3	4345.1	4073.0	3775.2	3528.9	3345.9	3249.8	3273.2
12.5°	5204.8	5107.4	4788.4	4408.5	4006.2	3607.5	3168.8	2800.6	2537.9	2441.7	2421.8
15°	5214.2	5076.9	4647.7	4146.9	3596.9	3032.8	2418.3	1977.3	1759.2	1711.1	1700.5
17.5°	5216.5	5024.2	4488.2	3863.1	3117.2	2349.1	1653.6	1373.3	1374.5	1451.9	1461.3
20°	5191.9	4945.6	4294.7	3510.1	2542.6	1624.3	1135.2	1087.2	1264.3	1457.8	1481.2
22.5°	5135.6	4841.2	4075.4	3098.5	1884.6	1069.6	878.4	931.2	1159.9	1396.8	1423.7
25°	5064.0	4714.6	3816.2	2621.2	1247.8	764.6	736.5	801.0	955.8	1114.1	1129.4
27.5°	4966.7	4564.4	3525.4	2074.6	810.4	629.8	648.5	691.9	755.3	825.6	832.7
30°	4841.2	4385.0	3214.6	1512.9	612.2	566.5	593.4	616.9	643.9	683.7	687.2
32.5°	4697.0	4212.6	2895.6	1044.9	543.0	533.6	554.7	566.5	587.6	612.2	614.5
35°	4576.2	4048.4	2564.9	738.8	513.7	509.0	523.1	527.7	547.7	574.7	577.0
37.5°	4507.0	3914.7	2223.6	595.8	493.7	486.7	494.9	494.9	523.1	562.9	568.8
40°	4511.7	3840.8	1882.3	538.3	477.3	467.9	469.1	469.1	505.5	548.9	552.4
42.5°	4639.5	3859.6	1579.7	516.0	464.4	453.9	448.0	451.5	482.0	510.2	512.5
45°	4939.7	3992.1	1295.9	501.9	451.5	448.0	435.1	433.9	445.7	458.6	458.6
47.5°	5432.3	4253.7	1103.6	492.6	441.0	439.8	424.5	409.3	408.1	412.8	412.8
50°	6233.3	4704.0	974.6	482.0	433.9	424.5	407.0	383.5	375.3	378.8	378.8
52.5°	7434.2	5507.4	925.3	467.9	418.7	403.4	383.5	360.0	353.0	354.2	354.2
55°	9009.3	6741.1	918.3	451.5	402.3	377.6	361.2	343.6	335.4	337.8	337.8
57.5°	10933.8	8447.5	1043.8	425.7	380.0	351.8	342.5	330.7	324.9	328.4	327.2
60°	13273.5	10680.5	1548.1	398.7	357.7	328.4	328.4	319.0	314.3	317.8	316.6
62.5°	15968.5	13245.3	2176.7	378.8	334.2	309.6	314.3	309.6	304.9	307.3	306.1
65°	18358.6	14916.5	2038.3	363.6	310.8	292.0	300.2	297.9	294.4	296.7	295.5
67.5°	18427.8	14297.3	1144.6	347.1	288.5	274.4	286.2	285.0	282.6	285.0	283.8
70°	16445.8	12072.5	645.0	316.6	265.0	253.3	269.7	268.6	266.2	270.9	269.7
72.5°	13176.1	8760.6	471.5	279.1	241.6	231.0	249.8	248.6	248.6	255.7	252.1
75°	7582.0	4508.1	376.5	239.2	217.0	208.8	225.2	226.3	228.7	238.1	231.0
77.5°	2161.4	1405.0	307.3	202.9	186.5	183.0	199.4	201.7	202.9	213.4	204.1
80°	803.4	647.4	253.3	170.1	152.5	153.6	168.9	172.4	173.6	184.1	172.4
82.5°	512.5	426.9	205.2	131.4	119.6	118.5	137.2	141.9	141.9	143.1	136.0
85°	299.1	255.7	154.8	95.0	84.4	80.9	102.0	110.2	106.7	104.4	99.7
87.5°	200.5	175.9	95.0	52.8	45.7	43.4	59.8	65.7	63.3	59.8	56.3
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)