

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: P269233

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269233
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-04-LED-E1-SL3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 20862.4 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

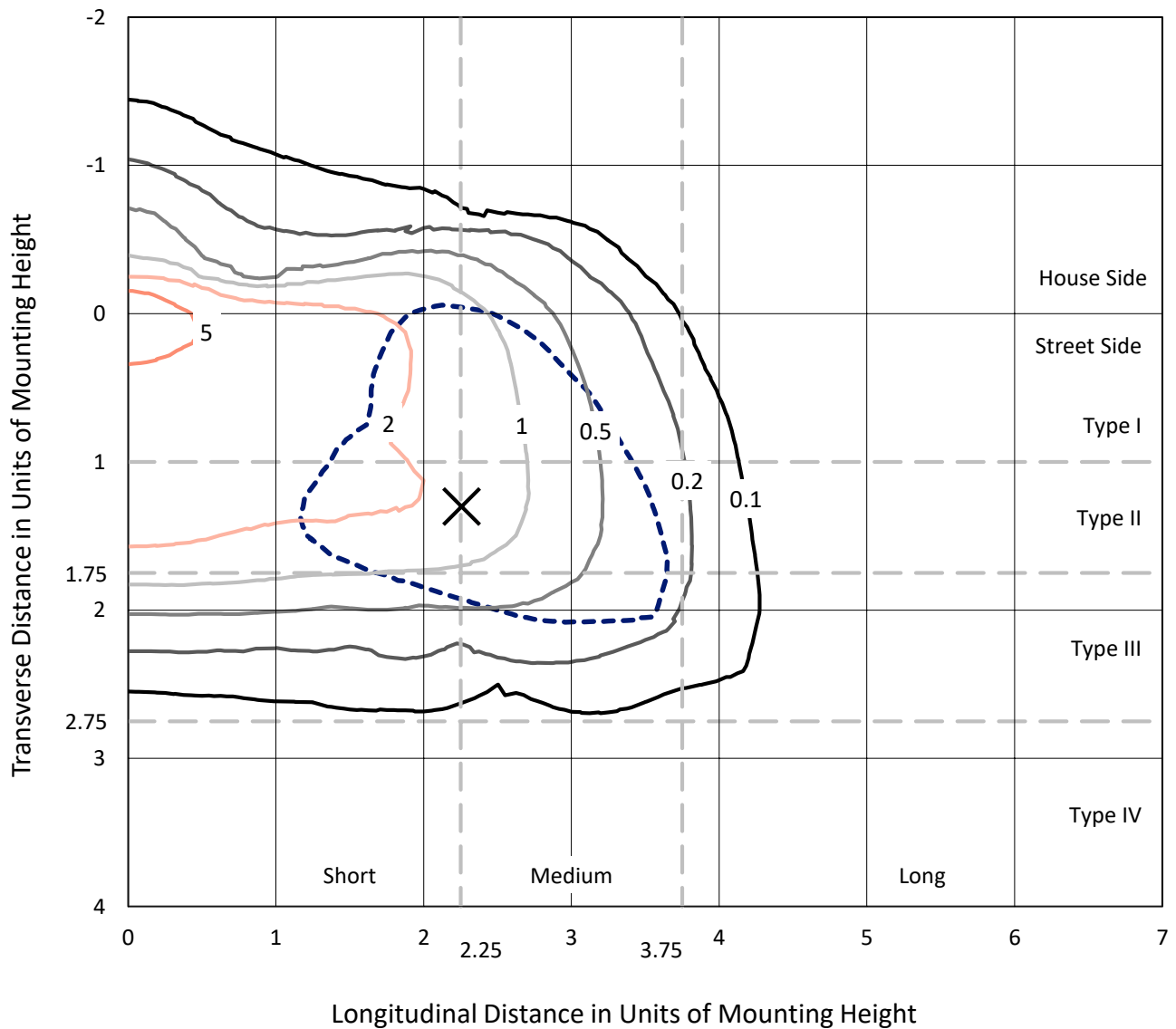
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

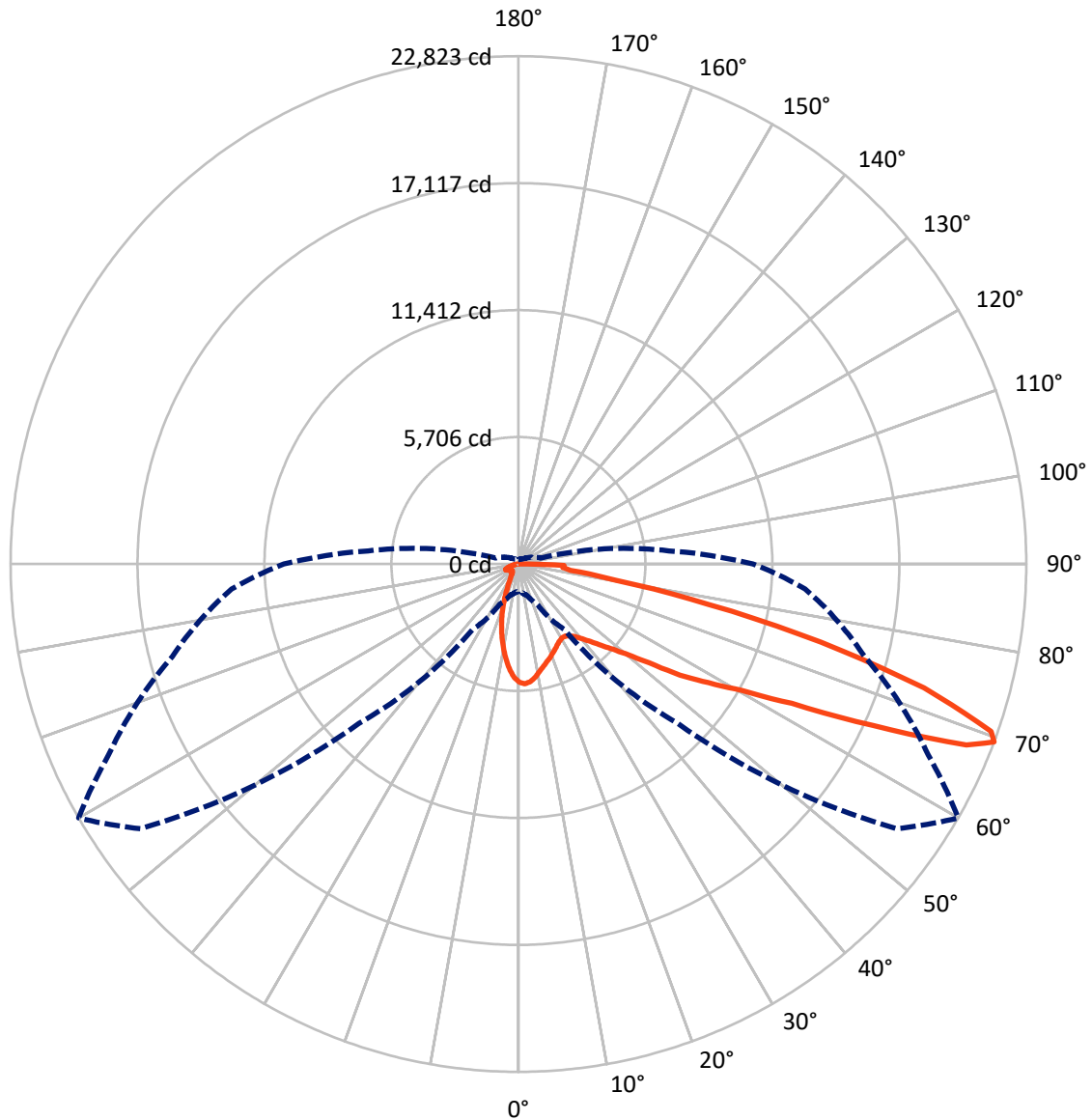
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	2968.1	0.0	2968.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	17894.3	0.0	17894.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	20862.4	0.0	20862.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	2.2
10°-20°	957.7	4.6
20°-30°	1220.2	5.8
30°-40°	1677.5	8.0
40°-50°	2721.9	13.0
50°-60°	4365.3	20.9
60°-70°	5809.9	27.8
70°-80°	3136.9	15.0
80°-90°	523.4	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°	20862.4	100.0
0°-180°	20862.4	100.0



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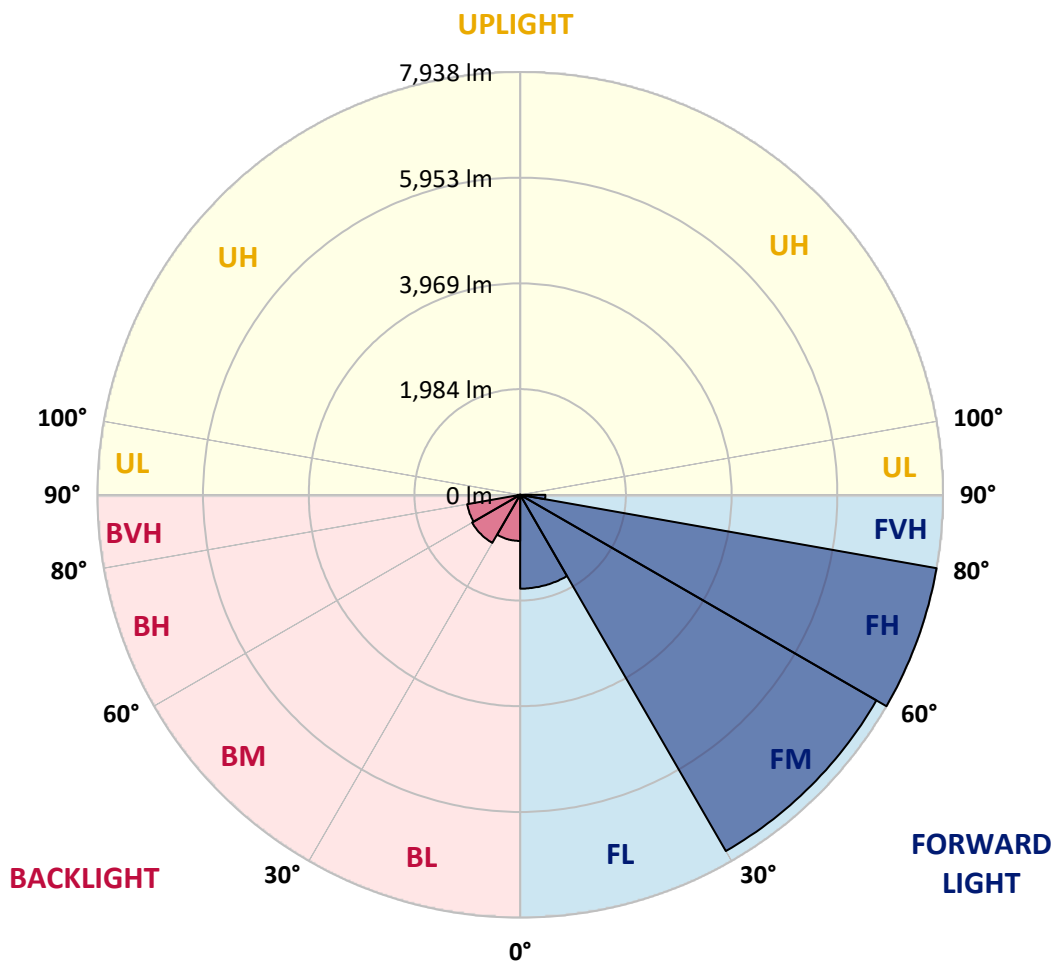
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1761.5	8.4			
FM	(30°-60°)	7722.0	37.0			
FH	(60°-80°)	7937.7	38.0			G4/12000
FVH	(80°-90°)	473.0	2.3			G3/500
BL	(0°-30°)	865.9	4.2	B2/1000		
BM	(30°-60°)	1042.7	5.0	B2/2500		
BH	(60°-80°)	1009.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	50.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1
2.5°	5424.9	5437.0	5432.0	5428.9	5438.0	5423.8	5394.6	5385.6	5371.4	5338.2	5281.8
5°	5221.3	5257.6	5255.5	5282.8	5328.1	5340.2	5327.0	5329.1	5303.0	5261.6	5167.9
7.5°	4869.6	4884.8	4892.8	4952.3	5034.9	5101.4	5157.8	5175.9	5163.8	5128.7	5007.7
10°	4506.7	4519.0	4538.1	4607.5	4712.4	4804.0	4910.9	4972.4	4998.6	4992.5	4857.6
12.5°	4195.4	4207.5	4232.6	4311.2	4436.3	4549.1	4704.3	4780.9	4843.4	4880.8	4735.5
15°	3916.3	3942.4	3966.6	4057.4	4197.4	4345.6	4520.9	4617.6	4714.5	4798.0	4627.7
17.5°	3698.5	3724.7	3738.8	3821.5	3970.7	4152.1	4357.7	4471.6	4592.4	4729.5	4520.9
20°	3572.6	3584.6	3578.7	3625.0	3759.0	3951.6	4195.4	4327.4	4473.5	4665.0	4414.1
22.5°	3537.3	3538.3	3516.1	3511.1	3597.8	3760.0	4022.0	4182.2	4361.7	4622.7	4322.4
25°	3623.0	3620.0	3559.4	3510.0	3519.2	3613.9	3854.7	4041.3	4267.9	4613.6	4251.9
27.5°	3813.5	3822.5	3732.8	3640.1	3548.5	3545.4	3727.7	3924.2	4191.3	4654.9	4221.7
30°	4080.6	4095.6	4000.0	3881.9	3709.6	3567.6	3678.4	3854.7	4144.1	4740.6	4216.6
32.5°	4372.8	4388.8	4316.4	4192.4	3966.6	3704.6	3712.7	3860.8	4141.9	4860.5	4250.8
35°	4684.2	4702.3	4665.0	4560.2	4309.3	3957.6	3843.7	3958.7	4207.5	5044.0	4342.5
37.5°	5031.9	5060.1	5070.2	4970.4	4702.3	4291.2	4058.4	4144.1	4355.6	5298.9	4510.7
40°	5532.8	5572.0	5569.0	5425.9	5152.8	4741.7	4389.8	4412.0	4586.4	5639.6	4779.9
42.5°	6492.1	6500.1	6249.2	5937.8	5648.6	5215.3	4780.9	4762.8	4904.8	6070.8	5175.9
45°	7712.6	7679.3	7121.0	6519.3	6166.7	5759.5	5289.8	5201.1	5309.1	6597.0	5671.8
47.5°	8725.3	8648.8	7943.4	7112.9	6714.8	6351.0	5887.4	5732.3	5791.7	7193.5	6312.7
50°	9077.2	9019.6	8435.2	7606.8	7233.8	7072.6	6623.2	6403.5	6419.6	7905.1	7063.6
52.5°	9001.5	8993.4	8603.4	7932.3	7719.7	7830.4	7665.1	7367.9	7210.6	8695.1	7873.9
55°	8823.2	8840.3	8699.1	8311.2	8274.8	8562.1	9026.7	8807.1	8318.2	9492.3	8711.3
57.5°	8203.3	8247.7	8558.2	8787.8	9168.8	9596.1	10123.2	10060.7	9510.4	10354.0	9706.9
60°	6609.0	6711.9	7544.2	8695.1	10089.0	11425.3	11661.1	11515.9	10740.0	11423.1	11022.2
62.5°	4630.8	4737.7	5727.2	7528.2	9937.7	13491.1	14410.3	13784.4	12505.6	12998.4	12724.2
65°	2479.1	2530.5	3286.4	5223.4	8389.8	13917.5	18428.3	17475.9	15301.2	14940.4	14180.6
67.5°	1367.6	1395.7	1685.0	2637.3	5373.5	12255.7	20988.1	21707.6	18795.1	16233.4	13915.5
69°	1236.5	1262.7	1452.2	1997.4	3595.7	10133.2	20738.1	22823.2	20326.9	16105.4	12936.0
70°	1209.4	1233.6	1403.8	1841.3	2910.5	8352.5	19900.7	22538.0	20691.7	15646.8	12081.2
72.5°	1088.3	1114.5	1279.8	1653.8	2487.1	4164.2	15763.7	19056.1	18786.1	13566.7	9163.8
75°	1014.8	1039.0	1319.3	1619.6	2381.3	2635.4	10392.2	14044.5	13809.6	9490.2	4941.1
77.5°	434.3	432.4	611.7	1370.5	2416.7	2551.6	5584.1	8773.7	8004.7	4056.3	1419.0
80°	290.2	285.2	290.2	403.1	2216.1	2565.7	2925.6	4453.3	3364.0	1033.9	699.4
82.5°	249.9	245.9	254.9	245.9	779.0	2928.7	2487.1	2368.3	1599.3	587.5	346.7
85°	168.3	161.2	219.6	220.8	367.9	2602.1	2801.6	2000.4	1294.0	348.7	171.3
87.5°	80.6	78.6	128.0	156.2	215.7	1057.1	3143.3	2049.8	1305.1	178.4	81.7
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°	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1
2.5°	5264.6	5223.4	5183.0	5134.6	5084.2	5027.9	4999.5	4971.4	4964.4	4956.3	4928.0
5°	5119.5	5061.1	4960.4	4849.4	4732.5	4618.6	4531.9	4477.6	4436.3	4415.1	4377.8
7.5°	4932.1	4846.4	4670.1	4478.6	4282.1	4102.6	3947.5	3849.7	3757.0	3713.7	3664.2
10°	4753.7	4625.7	4351.6	4069.4	3787.3	3516.1	3261.1	3080.7	2920.6	2830.9	2767.4
12.5°	4600.5	4425.2	4045.2	3663.3	3276.3	2890.3	2508.3	2208.0	1957.0	1825.0	1757.5
15°	4451.5	4239.7	3753.9	3269.2	2772.3	2247.4	1745.4	1404.9	1197.3	1114.5	1086.4
17.5°	4316.4	4045.2	3461.7	2872.2	2252.4	1617.5	1173.0	985.6	906.0	878.8	869.6
20°	4170.2	3848.7	3158.4	2457.0	1710.3	1130.7	916.1	833.4	801.2	793.2	789.2
22.5°	4029.1	3655.3	2868.2	2012.6	1228.5	872.8	787.0	752.8	747.7	754.8	754.8
25°	3909.2	3481.9	2554.7	1548.0	902.0	734.6	704.5	696.4	715.5	741.7	746.9
27.5°	3819.6	3339.8	2221.1	1142.9	718.6	639.0	637.9	651.0	698.4	748.7	758.9
30°	3758.0	3204.8	1864.4	824.4	602.7	562.3	578.5	606.6	676.2	747.7	767.0
32.5°	3726.8	3105.0	1492.5	637.9	515.9	493.8	521.0	555.3	623.9	690.3	715.5
35°	3751.0	3031.4	1141.8	532.1	455.5	438.5	466.6	499.8	540.2	568.4	587.5
37.5°	3841.6	3002.1	861.7	476.7	414.2	398.0	420.2	439.5	455.5	463.5	472.7
40°	4037.2	3033.4	690.3	448.4	391.0	370.9	380.0	387.0	397.1	405.1	409.2
42.5°	4325.3	3127.1	618.8	437.4	378.9	349.7	347.6	350.7	363.9	378.9	382.0
45°	4728.5	3292.4	613.7	444.4	372.8	332.6	323.5	327.5	347.6	370.9	375.0
47.5°	5243.4	3544.4	654.1	465.6	377.8	323.5	308.4	313.4	338.7	369.8	375.0
50°	5867.3	3896.0	721.6	496.9	400.0	325.5	303.4	306.3	332.6	366.9	371.9
52.5°	6604.0	4395.0	795.1	527.0	423.3	338.7	307.4	300.4	324.5	354.7	360.8
55°	7423.4	5034.9	870.7	554.3	435.4	354.7	315.5	292.3	309.3	334.6	339.6
57.5°	8429.1	5929.8	1001.7	580.5	443.5	365.8	323.5	284.3	290.2	308.4	312.4
60°	9790.5	7195.6	1232.6	623.9	461.5	369.8	322.5	277.1	271.1	281.2	283.1
62.5°	11422.2	8570.2	1425.0	678.2	491.8	372.8	316.5	272.0	254.9	254.9	256.9
65°	12390.7	8938.0	1318.2	723.6	517.0	369.8	309.3	267.1	242.9	231.9	232.8
67.5°	11569.4	7860.7	1129.7	732.7	515.9	355.8	298.2	258.1	230.8	213.6	212.7
69°	10540.4	6782.4	1045.1	708.5	491.8	337.7	284.3	247.9	221.7	203.6	202.6
70°	9710.9	6124.3	989.7	682.3	465.6	324.5	273.2	238.9	214.7	197.5	195.6
72.5°	7060.5	4013.0	845.6	586.6	383.9	272.0	235.9	209.7	191.5	181.4	179.4
75°	3528.3	1913.7	686.2	475.7	294.3	217.7	193.4	175.3	166.2	164.3	163.2
77.5°	1159.0	876.7	490.7	354.7	218.6	170.3	156.2	143.1	141.2	147.1	145.2
80°	636.9	510.0	311.4	234.7	149.2	125.0	123.0	115.9	118.9	128.9	127.0
82.5°	324.5	265.0	192.4	141.2	100.8	89.7	97.7	93.8	97.7	106.8	105.8
85°	160.3	145.2	121.9	85.7	66.6	57.4	69.4	72.6	74.6	81.7	81.7
87.5°	92.7	85.7	64.5	40.3	33.2	30.3	40.3	39.3	46.4	50.3	49.3
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)