

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: P193617

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193617
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-09-LED-E1-SL2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 28027 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 290
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

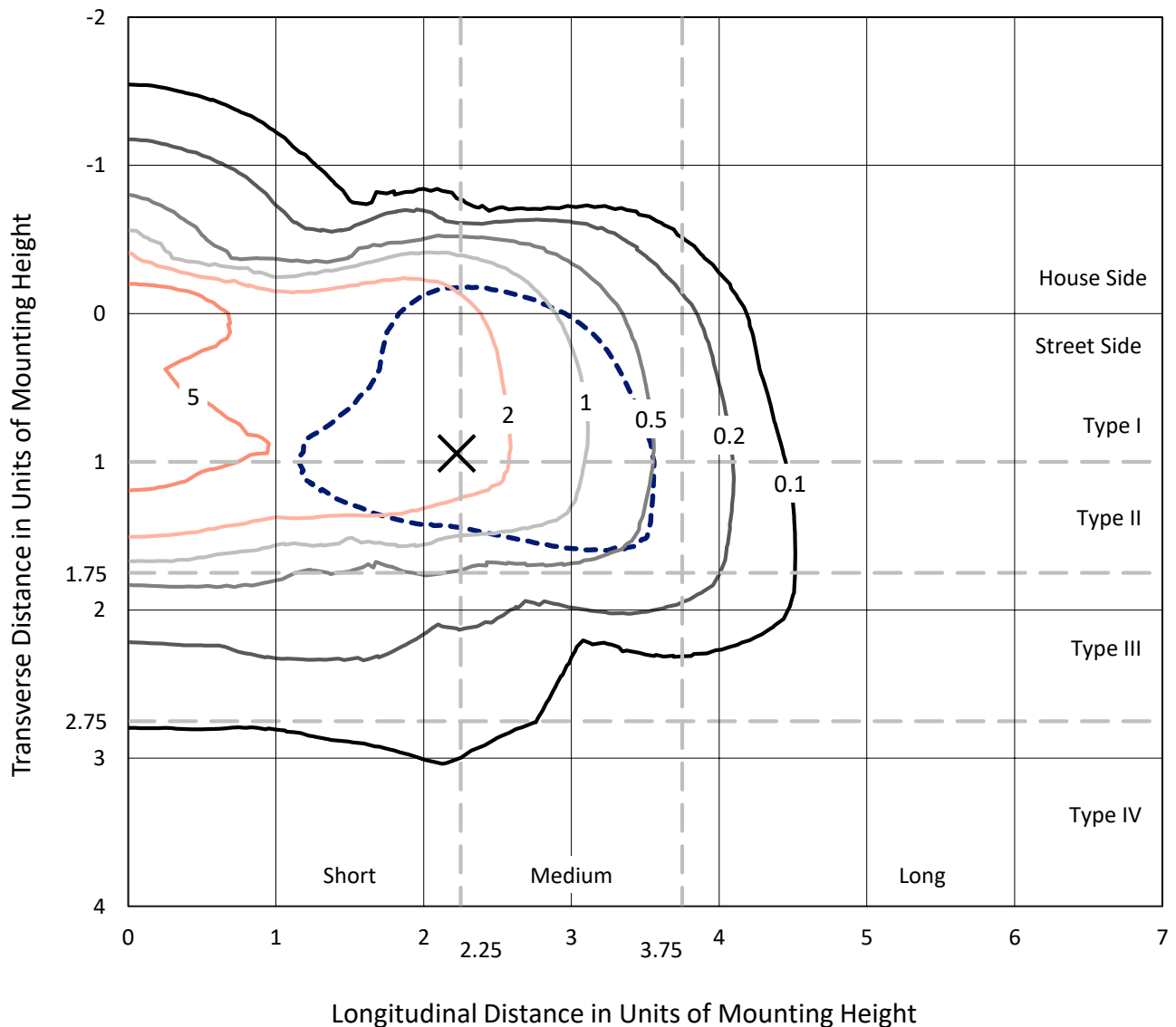


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Iso-Footcandle Lines of Horizontal Illumination

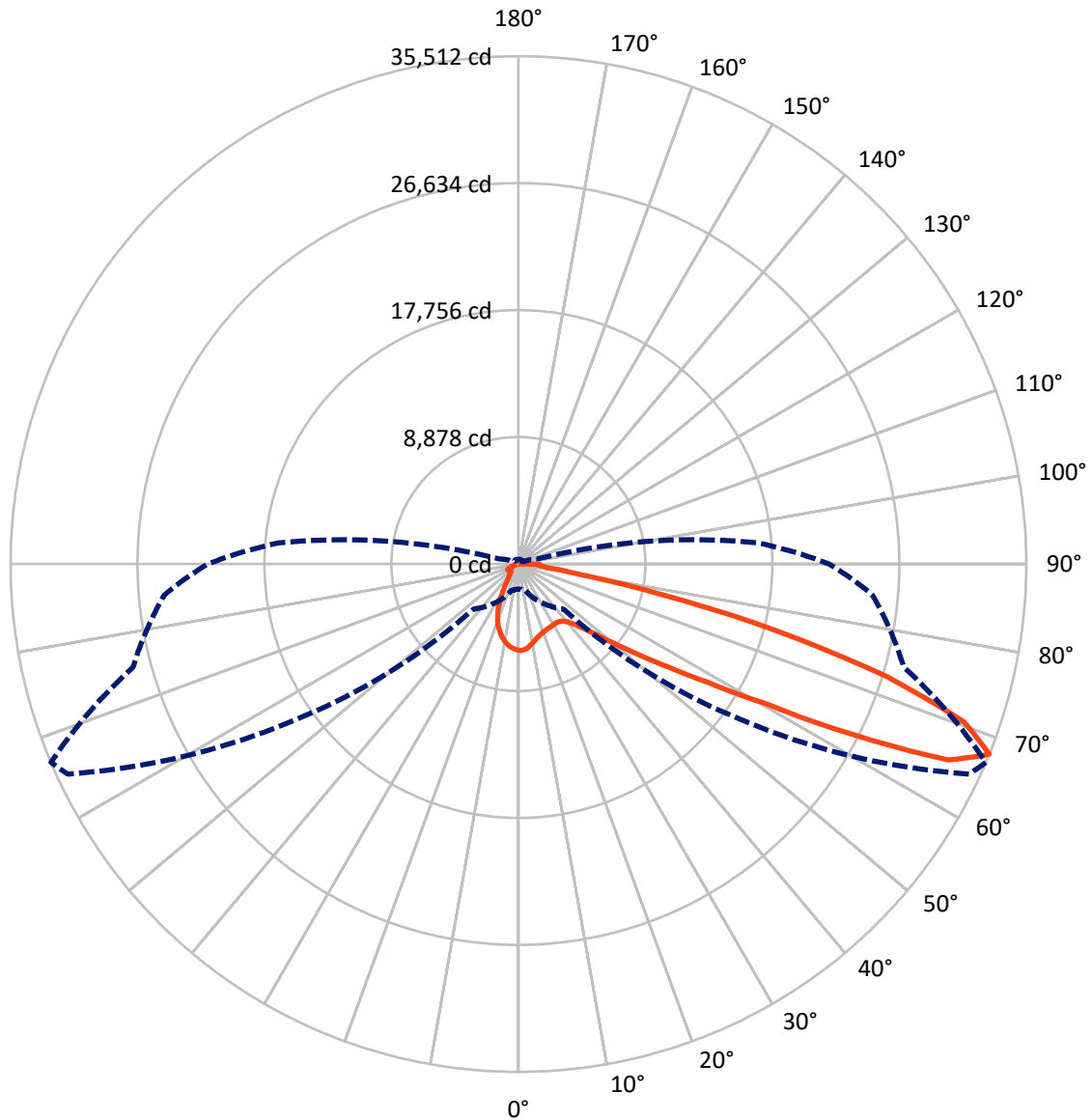
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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
House Side	Lumens	4643.8	0.0	4643.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	23383.2	0.0	23383.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	28027.0	0.0	28027.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.8	1.8
10°-20°	1193.4	4.3
20°-30°	1617.7	5.8
30°-40°	2299.7	8.2
40°-50°	3847.4	13.7
50°-60°	6086.6	21.7
60°-70°	7753.7	27.7
70°-80°	4061.4	14.5
80°-90°	651.4	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°	28027.0	100.0
0°-180°	28027.0	100.0



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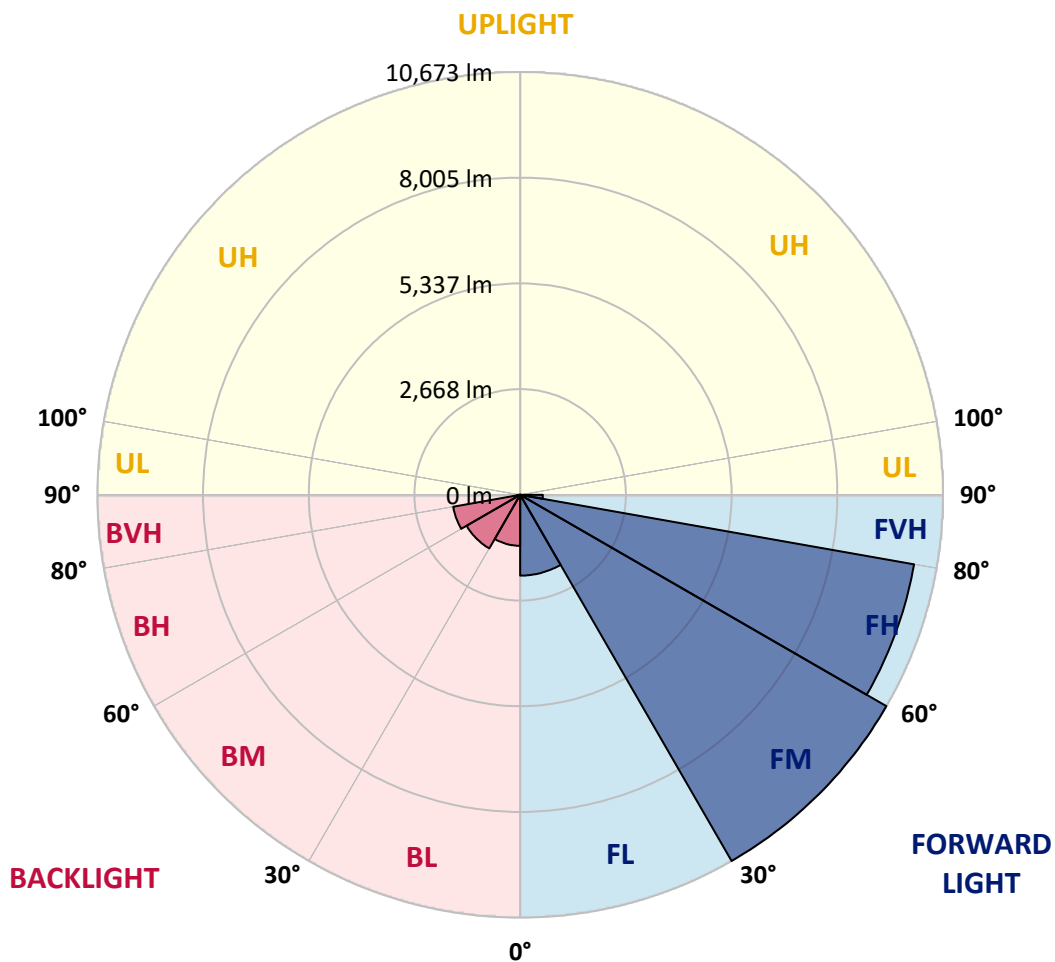
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2039.7	7.3			
FM	(30°-60°)	10673.3	38.1			
FH	(60°-80°)	10097.5	36.0			G4/12000
FVH	(80°-90°)	572.8	2.0			G4/750
BL	(0°-30°)	1287.1	4.6	B3/2500		
BM	(30°-60°)	1560.4	5.6	B2/2500		
BH	(60°-80°)	1717.6	6.1	B3/2500		G3/2500
BVH	(80°-90°)	78.6	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°	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4
2.5°	5796.6	5806.2	5836.7	5856.0	5943.1	5980.4	6006.7	6032.9	6037.1	6049.5	6037.1
5°	5188.4	5209.2	5265.8	5329.4	5498.0	5630.7	5770.3	5915.4	5941.7	6035.7	6061.9
7.5°	4717.1	4711.6	4758.6	4834.6	5007.4	5191.2	5435.8	5724.7	5781.4	5992.8	6095.1
10°	4373.0	4368.9	4418.6	4497.4	4661.9	4836.0	5112.4	5507.7	5587.9	5925.1	6126.9
12.5°	4118.7	4120.1	4169.8	4256.9	4424.1	4599.7	4880.2	5297.6	5399.9	5846.3	6160.1
15°	3950.1	3961.1	4001.2	4093.8	4256.9	4432.4	4707.5	5140.1	5254.8	5784.1	6197.4
17.5°	3893.4	3911.4	3925.2	3992.9	4132.5	4308.0	4577.6	5024.0	5145.6	5741.3	6230.6
20°	3945.9	3966.7	3940.4	3963.9	4052.4	4207.1	4475.3	4932.8	5057.1	5692.9	6234.7
22.5°	4171.2	4190.6	4113.2	4045.4	4039.9	4133.9	4391.0	4860.9	4989.4	5657.0	6236.1
25°	4567.9	4580.3	4450.4	4292.8	4139.4	4107.6	4331.5	4811.1	4948.0	5625.2	6209.8
27.5°	5054.4	5064.1	4914.8	4682.6	4374.4	4169.8	4310.8	4782.1	4924.5	5597.6	6165.6
30°	5645.9	5691.5	5491.1	5198.1	4748.9	4353.7	4352.3	4766.9	4898.2	5550.6	6078.5
32.5°	6251.3	6270.6	6132.4	5835.3	5253.4	4677.1	4468.4	4778.0	4891.3	5493.9	5968.0
35°	6864.9	6889.8	6800.0	6560.9	5943.1	5151.1	4695.0	4842.9	4934.1	5474.5	5890.6
37.5°	7659.7	7692.8	7568.4	7292.0	6782.0	5793.8	5072.3	5006.0	5065.4	5529.8	5867.1
40°	8916.0	8900.8	8537.3	8125.4	7699.7	6616.2	5611.4	5282.4	5317.0	5708.1	5938.9
42.5°	10378.3	10341.0	9714.9	9068.0	8708.7	7611.3	6324.5	5762.0	5755.1	6059.2	6191.9
45°	11544.8	11514.4	10950.5	10153.0	9865.5	8744.6	7246.4	6476.6	6425.4	6616.2	6659.0
47.5°	12176.4	12177.8	11853.0	11202.0	11195.1	10184.8	8430.9	7510.4	7421.9	7511.8	7466.2
50°	11955.3	11984.3	11949.7	11742.4	12408.6	12072.7	9977.5	8951.9	8773.6	8862.1	8686.6
52.5°	10885.5	10922.8	11127.4	11445.3	12918.6	14354.6	12249.7	10743.2	10535.8	10504.0	10309.2
55°	8989.3	9034.9	9452.3	10316.1	12494.3	15887.4	15834.9	13026.4	12696.1	12396.2	12313.2
57.5°	6196.0	6272.0	6943.7	8226.3	11121.9	16350.4	20104.2	16281.3	15609.6	14561.9	14581.3
60°	3492.6	3581.1	4373.0	5538.1	8352.1	15847.3	23352.2	21211.3	19793.2	17098.1	17241.8
62.5°	2221.1	2316.4	2917.6	3847.8	5011.5	13138.4	24683.1	28065.2	26264.3	20224.4	20365.4
65°	1798.1	1839.6	2122.9	3176.1	3639.1	7915.4	23672.8	33711.1	33039.4	24192.5	23534.6
67.5°	1755.3	1769.1	1915.6	2666.1	3489.8	4449.0	18882.4	34767.0	35512.0	27897.9	24854.5
70°	1734.5	1782.9	2158.9	2544.5	3341.9	3752.4	11347.1	31872.9	33049.0	28866.8	23097.8
72.5°	841.7	838.9	1086.3	2301.2	3764.9	3892.0	5829.7	25788.8	26969.1	25009.3	18980.5
75°	678.6	620.6	592.9	843.1	3619.7	4019.2	3715.1	17744.9	18599.1	16767.8	11667.8
77.5°	644.1	575.0	526.6	528.0	1530.0	4262.4	3147.1	9821.3	10070.1	7574.0	3196.8
80°	533.5	469.9	435.4	490.6	740.8	4059.3	3402.8	4444.9	4078.6	1860.3	1064.2
82.5°	370.4	337.2	327.6	411.9	592.9	2892.8	3957.0	2388.3	2002.7	931.5	656.5
85°	236.3	201.8	223.9	299.9	461.6	1335.1	4075.8	1861.7	1480.2	591.5	370.4
87.5°	109.2	88.5	110.6	165.9	301.3	460.2	3878.2	2091.1	1524.5	312.4	233.6
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°	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4	6045.4
2.5°	6048.1	6021.9	6001.1	5962.4	5919.6	5878.1	5840.8	5793.8	5780.0	5767.6	5786.9
5°	6067.5	6041.2	5965.2	5846.3	5715.0	5592.0	5469.0	5364.0	5299.0	5263.1	5283.8
7.5°	6096.5	6059.2	5901.6	5683.2	5446.9	5231.3	5008.8	4830.5	4699.2	4637.0	4655.0
10°	6122.8	6050.9	5793.8	5466.3	5120.7	4800.1	4449.0	4158.8	3943.2	3829.8	3857.5
12.5°	6133.8	6019.1	5643.2	5195.4	4721.3	4251.4	3734.5	3300.5	2990.9	2877.6	2854.1
15°	6144.9	5983.2	5477.3	4887.1	4238.9	3574.1	2849.9	2330.2	2073.2	2016.5	2004.1
17.5°	6147.6	5921.0	5289.3	4552.7	3673.7	2768.4	1948.8	1618.5	1619.8	1711.1	1722.1
20°	6118.6	5828.4	5061.3	4136.7	2996.4	1914.2	1337.9	1281.2	1489.9	1718.0	1745.6
22.5°	6052.3	5705.4	4802.8	3651.5	2221.1	1260.5	1035.2	1097.4	1366.9	1646.1	1677.9
25°	5968.0	5556.1	4497.4	3089.0	1470.6	901.1	868.0	944.0	1126.4	1313.0	1331.0
27.5°	5853.2	5379.2	4154.6	2445.0	955.0	742.2	764.3	815.4	890.1	973.0	981.3
30°	5705.4	5167.7	3788.4	1782.9	721.5	667.6	699.3	727.0	758.8	805.8	809.9
32.5°	5535.4	4964.5	3412.4	1231.5	639.9	628.9	653.7	667.6	692.4	721.5	724.2
35°	5393.0	4771.0	3022.7	870.7	605.4	599.8	616.4	622.0	645.4	677.2	680.0
37.5°	5311.5	4613.5	2620.5	702.1	581.9	573.6	583.3	583.3	616.4	663.4	670.3
40°	5317.0	4526.4	2218.3	634.4	562.5	551.5	552.8	552.8	595.7	646.8	651.0
42.5°	5467.6	4548.5	1861.7	608.1	547.3	534.9	528.0	532.1	568.0	601.2	604.0
45°	5821.5	4704.7	1527.2	591.5	532.1	528.0	512.8	511.4	525.2	540.4	540.4
47.5°	6401.9	5012.9	1300.6	580.5	519.7	518.3	500.3	482.4	481.0	486.5	486.5
50°	7345.9	5543.6	1148.5	568.0	511.4	500.3	479.6	452.0	442.3	446.4	446.4
52.5°	8761.2	6490.4	1090.5	551.5	493.4	475.4	452.0	424.3	416.0	417.4	417.4
55°	10617.4	7944.4	1082.2	532.1	474.1	445.0	425.7	405.0	395.3	398.0	398.0
57.5°	12885.4	9955.3	1230.1	501.7	447.8	414.6	403.6	389.8	382.8	387.0	385.6
60°	15642.7	12586.9	1824.4	469.9	421.5	387.0	387.0	375.9	370.4	374.6	373.2
62.5°	18818.8	15609.6	2565.2	446.4	393.9	364.9	370.4	364.9	359.3	362.1	360.7
65°	21635.6	17579.1	2402.1	428.5	366.3	344.1	353.8	351.1	346.9	349.7	348.3
67.5°	21717.1	16849.3	1348.9	409.1	340.0	323.4	337.2	335.9	333.1	335.9	334.5
70°	19381.3	14227.5	760.2	373.2	312.4	298.5	317.9	316.5	313.7	319.3	317.9
72.5°	15528.0	10324.4	555.6	328.9	284.7	272.3	294.4	293.0	293.0	301.3	297.2
75°	8935.4	5312.8	443.7	282.0	255.7	246.0	265.4	266.7	269.5	280.6	272.3
77.5°	2547.2	1655.8	362.1	239.1	219.8	215.6	235.0	237.7	239.1	251.5	240.5
80°	946.7	762.9	298.5	200.4	179.7	181.1	199.0	203.2	204.6	217.0	203.2
82.5°	604.0	503.1	241.9	154.8	141.0	139.6	161.7	167.2	167.2	168.6	160.3
85°	352.4	301.3	182.4	112.0	99.5	95.4	120.2	129.9	125.8	123.0	117.5
87.5°	236.3	207.3	112.0	62.2	53.9	51.1	70.5	77.4	74.6	70.5	66.3
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)