

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: P193704

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193704
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-06-LED-E1-SL3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 23473 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

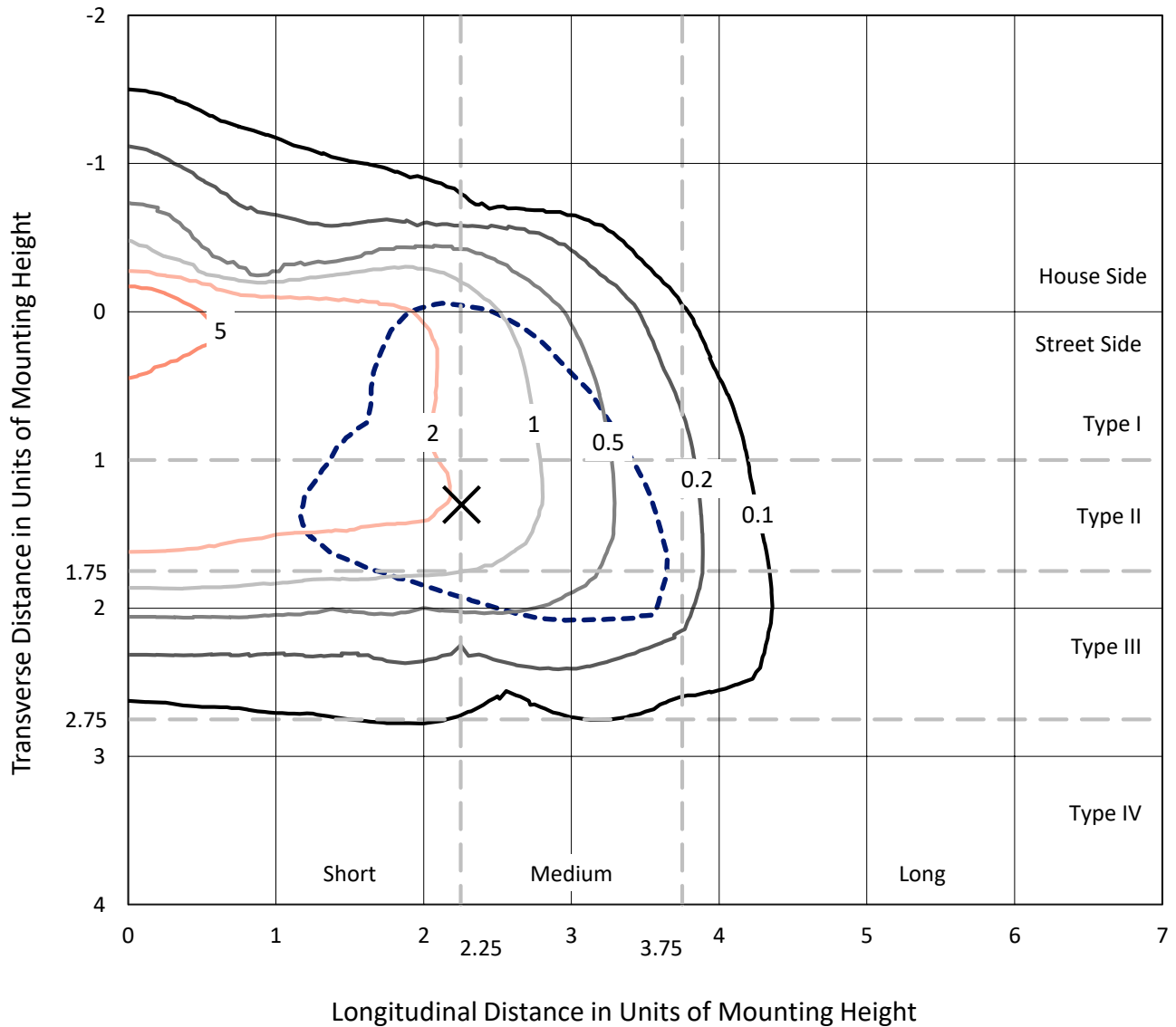


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Iso-Footcandle Lines of Horizontal Illumination

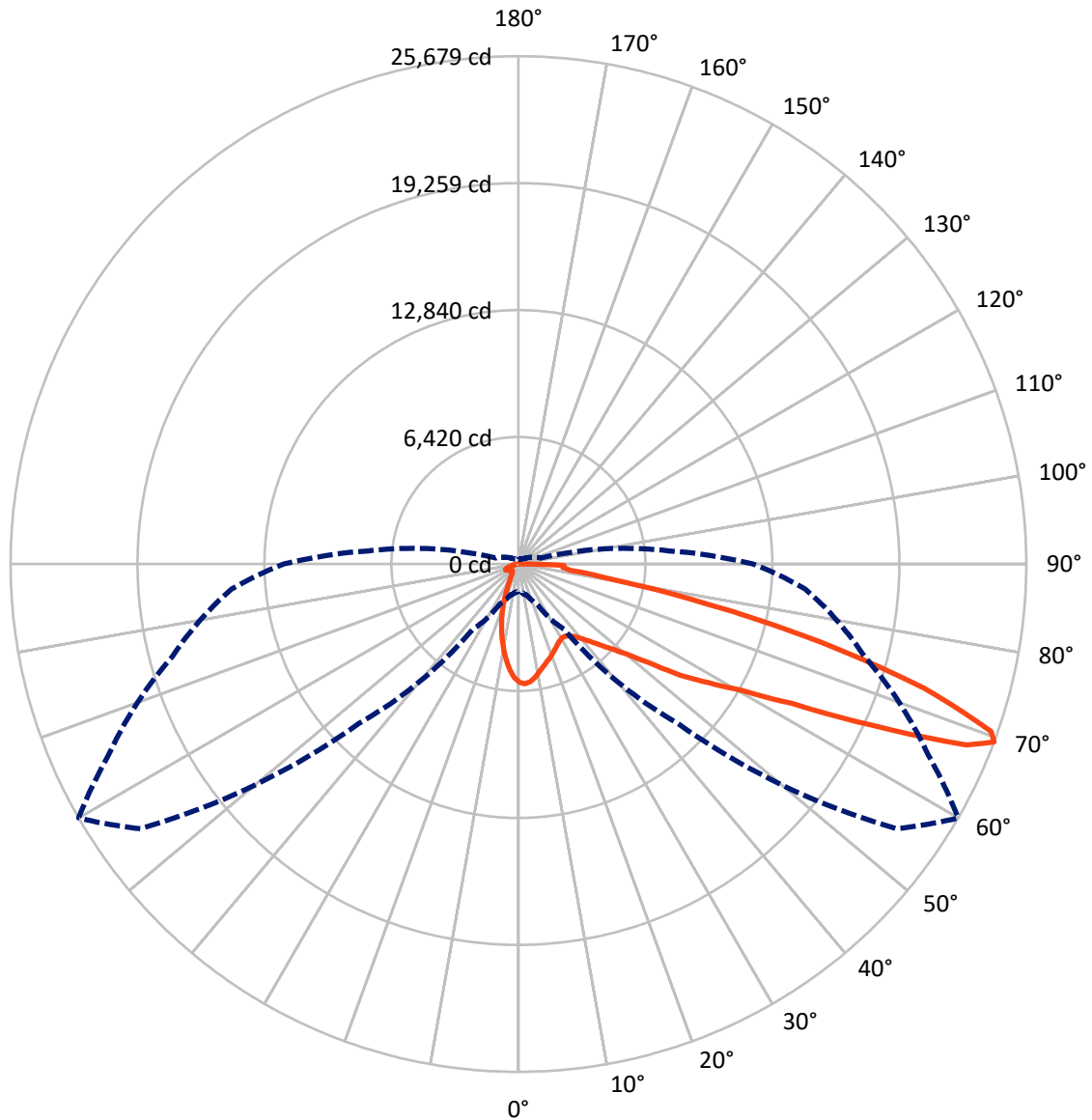
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	3339.5	0.0	3339.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	20133.5	0.0	20133.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	23473.0	0.0	23473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	2.2
10°-20°	1077.5	4.6
20°-30°	1372.9	5.8
30°-40°	1887.4	8.0
40°-50°	3062.6	13.0
50°-60°	4911.6	20.9
60°-70°	6536.9	27.8
70°-80°	3529.4	15.0
80°-90°	588.9	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°	23473.0	100.0
0°-180°	23473.0	100.0

Coefficient of Utilization



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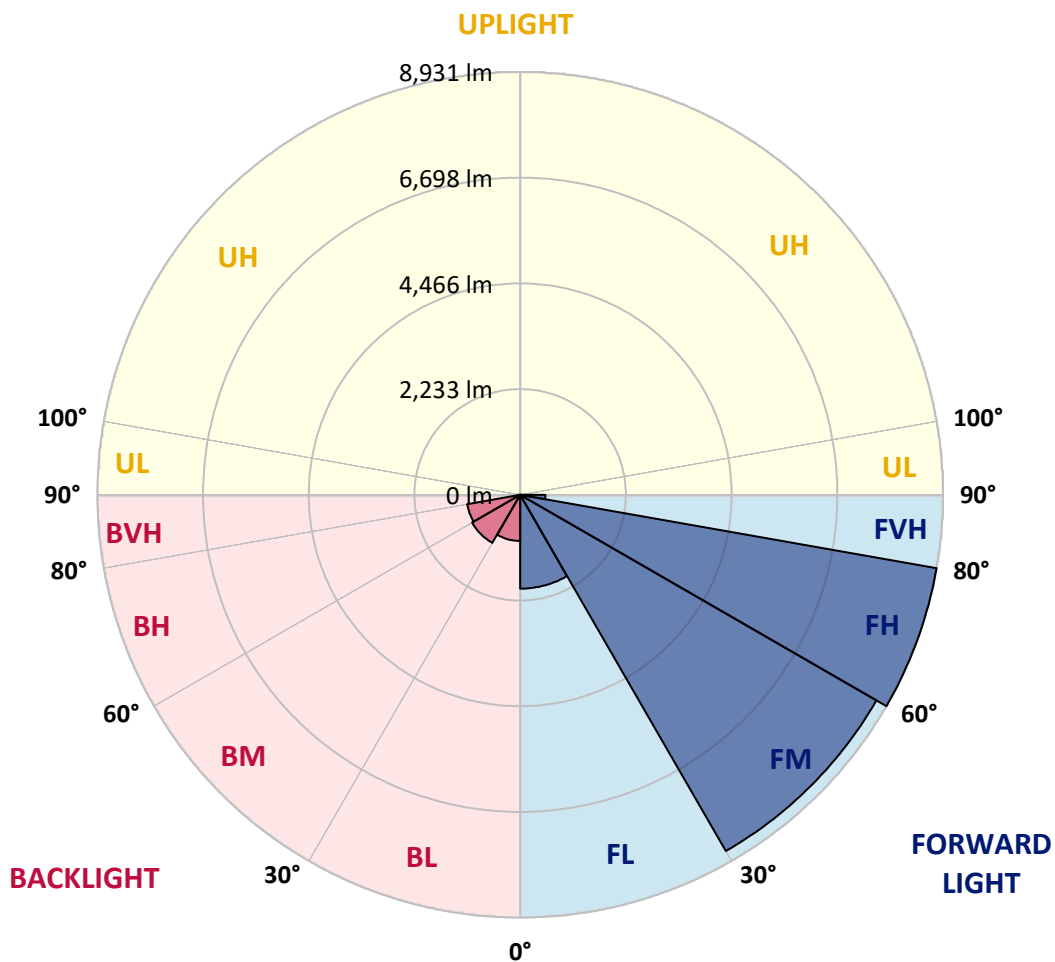
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1982.0	8.4			
FM (30°-60°)	8688.3	37.0			
FH (60°-80°)	8931.0	38.0			G4/12000
FVH (80°-90°)	532.2	2.3			G4/750
BL (0°-30°)	974.2	4.2	B2/1000		
BM (30°-60°)	1173.2	5.0	B2/2500		
BH (60°-80°)	1135.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	56.7	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°	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3
2.5°	6103.7	6117.3	6111.7	6108.3	6118.5	6102.6	6069.7	6059.5	6043.6	6006.2	5942.7
5°	5874.7	5915.5	5913.2	5943.9	5994.9	6008.5	5993.7	5996.0	5966.5	5920.0	5814.6
7.5°	5479.0	5496.0	5505.0	5571.9	5664.9	5739.8	5803.3	5823.7	5810.1	5770.4	5634.3
10°	5070.8	5084.4	5105.9	5184.2	5302.1	5405.3	5525.5	5594.6	5624.1	5617.3	5465.4
12.5°	4720.4	4734.0	4762.3	4850.8	4991.4	5118.4	5293.0	5379.2	5449.5	5491.4	5328.2
15°	4406.3	4435.8	4463.0	4565.0	4722.7	4889.3	5086.6	5195.5	5304.3	5398.5	5206.8
17.5°	4161.4	4190.9	4206.7	4299.7	4467.5	4671.6	4902.9	5031.1	5167.1	5321.4	5086.6
20°	4019.6	4033.3	4026.4	4078.6	4229.4	4446.0	4720.4	4868.9	5033.3	5248.8	4966.4
22.5°	3980.0	3981.1	3956.1	3950.5	4048.0	4230.5	4525.4	4705.6	4907.5	5201.2	4863.3
25°	4076.3	4072.9	4004.9	3949.3	3959.5	4066.1	4337.1	4546.9	4802.0	5191.0	4783.9
27.5°	4290.6	4300.8	4199.9	4095.6	3992.4	3989.0	4194.3	4415.4	4715.9	5237.4	4749.9
30°	4591.1	4608.1	4500.4	4367.7	4173.9	4014.0	4138.7	4337.1	4662.6	5333.8	4744.2
32.5°	4920.0	4938.1	4856.5	4717.0	4463.0	4168.2	4177.3	4343.9	4660.3	5468.8	4782.8
35°	5270.3	5290.7	5248.8	5130.9	4848.5	4452.8	4324.7	4453.9	4734.0	5675.1	4885.9
37.5°	5661.5	5693.3	5704.6	5592.4	5290.7	4828.1	4566.2	4662.6	4900.7	5962.0	5075.3
40°	6225.1	6269.3	6265.9	6104.9	5797.6	5335.0	4939.2	4964.2	5160.3	6345.3	5378.0
42.5°	7304.5	7313.6	7031.3	6680.9	6355.5	5867.9	5379.2	5358.8	5518.6	6830.6	5823.7
45°	8677.7	8640.3	8012.1	7335.1	6938.3	6480.2	5951.8	5852.0	5973.3	7422.5	6381.5
47.5°	9817.2	9731.1	8937.3	8003.0	7555.1	7145.8	6624.2	6449.6	6516.5	8093.7	7102.7
50°	10213.0	10148.3	9490.7	8558.6	8139.1	7957.6	7451.9	7204.7	7222.9	8894.2	7947.4
52.5°	10127.9	10118.8	9680.0	8924.9	8685.6	8810.3	8624.4	8289.9	8113.0	9783.2	8859.1
55°	9927.2	9946.5	9787.8	9351.2	9310.4	9633.5	10156.3	9909.1	9359.1	10680.1	9801.4
57.5°	9229.9	9279.8	9629.0	9887.5	10316.1	10796.9	11389.9	11319.6	10700.5	11649.6	10921.6
60°	7436.1	7551.7	8488.3	9783.2	11351.4	12854.9	13120.3	12957.0	12083.9	12852.7	12401.4
62.5°	5210.2	5330.4	6443.9	8470.2	11181.3	15179.4	16213.5	15509.4	14070.5	14624.9	14316.5
65°	2789.4	2847.2	3697.6	5877.0	9439.6	15659.0	20734.3	19662.8	17215.9	16809.9	15955.0
67.5°	1538.7	1570.4	1895.9	2967.4	6045.9	13789.3	23614.4	24424.0	21147.1	18264.7	15656.8
69°	1391.3	1420.8	1633.9	2247.4	4045.7	11401.3	23333.2	25679.2	22870.6	18120.7	14554.6
70°	1360.7	1387.9	1579.5	2071.6	3274.7	9397.7	22391.0	25358.3	23281.1	17604.8	13593.1
72.5°	1224.6	1254.1	1440.0	1860.7	2798.4	4685.2	17736.3	21440.8	21136.9	15264.4	10310.5
75°	1141.8	1169.0	1484.3	1822.2	2679.4	2965.1	11692.7	15801.9	15537.7	10677.9	5559.5
77.5°	488.7	486.4	688.3	1542.1	2719.1	2871.0	6282.9	9871.7	9006.5	4563.9	1596.5
80°	326.6	320.9	326.6	453.6	2493.4	2886.9	3291.7	5010.7	3784.9	1163.4	786.9
82.5°	281.2	276.7	286.9	276.7	876.5	3295.1	2798.4	2664.6	1799.5	661.1	390.1
85°	189.4	181.4	247.2	248.3	413.9	2927.7	3152.2	2250.8	1455.9	392.3	192.8
87.5°	90.7	88.4	144.0	175.8	242.7	1189.5	3536.6	2306.3	1468.4	200.7	91.8
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°	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3	5981.3
2.5°	5923.4	5877.0	5831.6	5777.2	5720.5	5657.0	5625.2	5593.5	5585.5	5576.5	5544.7
5°	5760.2	5694.4	5581.0	5456.3	5324.8	5196.6	5099.1	5037.9	4991.4	4967.6	4925.6
7.5°	5549.3	5452.9	5254.5	5039.0	4817.9	4616.1	4441.5	4331.5	4227.1	4178.4	4122.8
10°	5348.6	5204.6	4896.1	4578.7	4261.2	3956.1	3669.3	3466.3	3286.0	3185.1	3113.7
12.5°	5176.2	4978.9	4551.4	4121.7	3686.3	3252.0	2822.3	2484.4	2202.0	2053.5	1977.5
15°	5008.4	4770.3	4223.7	3678.3	3119.3	2528.6	1963.9	1580.6	1347.1	1254.1	1222.3
17.5°	4856.5	4551.4	3894.9	3231.6	2534.2	1819.9	1319.8	1108.9	1019.4	988.8	978.5
20°	4692.0	4330.3	3553.6	2764.4	1924.2	1272.2	1030.7	937.7	901.4	892.4	887.8
22.5°	4533.3	4112.6	3227.1	2264.4	1382.2	981.9	885.6	847.0	841.3	849.3	849.3
25°	4398.4	3917.6	2874.4	1741.7	1014.8	826.6	792.6	783.5	805.1	834.5	840.2
27.5°	4297.4	3757.7	2499.1	1285.8	808.5	718.9	717.8	732.5	785.8	842.5	853.8
30°	4228.3	3605.8	2097.7	927.5	678.1	632.7	650.9	682.6	760.8	841.3	862.9
32.5°	4193.1	3493.5	1679.3	717.8	580.6	555.6	586.2	624.8	701.9	776.7	805.1
35°	4220.3	3410.7	1284.7	598.7	512.5	493.2	525.0	562.4	607.8	639.5	661.1
37.5°	4322.4	3377.9	969.5	536.3	466.0	447.9	472.8	494.4	512.5	521.6	531.8
40°	4542.4	3413.0	776.7	504.6	439.9	417.3	427.5	435.4	446.8	455.8	460.4
42.5°	4866.7	3518.5	696.2	492.1	426.3	393.5	391.2	394.6	409.3	426.3	429.7
45°	5320.2	3704.4	690.5	500.0	419.5	374.2	364.0	368.5	391.2	417.3	421.8
47.5°	5899.6	3987.9	735.9	523.9	425.2	364.0	347.0	352.6	381.0	416.1	421.8
50°	6601.5	4383.6	811.9	559.0	450.2	366.2	341.3	344.7	374.2	412.7	418.4
52.5°	7430.4	4944.9	894.6	593.0	476.2	381.0	345.8	337.9	365.1	399.1	405.9
55°	8352.2	5664.9	979.7	623.6	489.8	399.1	354.9	328.8	348.1	376.5	382.1
57.5°	9483.9	6671.8	1127.1	653.1	498.9	411.6	364.0	319.8	326.6	347.0	351.5
60°	11015.8	8096.0	1386.7	701.9	519.3	416.1	362.8	311.8	305.0	316.4	318.6
62.5°	12851.5	9642.6	1603.3	763.1	553.3	419.5	356.0	306.2	286.9	286.9	289.1
65°	13941.2	10056.5	1483.1	814.1	581.7	416.1	348.1	300.5	273.3	260.8	261.9
67.5°	13017.1	8844.4	1271.1	824.3	580.6	400.3	335.6	290.3	259.7	240.4	239.3
69°	11859.4	7631.1	1175.8	797.1	553.3	379.9	319.8	278.9	249.5	229.0	227.9
70°	10926.2	6890.7	1113.5	767.6	523.9	365.1	307.3	268.7	241.5	222.2	220.0
72.5°	7944.0	4515.2	951.3	659.9	432.0	306.2	265.3	235.8	215.4	204.1	201.8
75°	3969.8	2153.3	772.2	535.2	331.1	244.9	217.7	197.3	187.1	184.8	183.7
77.5°	1304.0	986.5	552.2	399.1	246.1	191.6	175.8	161.0	158.7	165.5	163.3
80°	716.6	573.7	350.4	264.2	167.8	140.6	138.3	130.4	133.8	145.1	142.9
82.5°	365.1	298.2	216.6	158.7	113.4	100.9	110.0	105.5	110.0	120.2	119.1
85°	180.3	163.3	137.2	96.4	74.8	64.6	78.2	81.6	83.9	91.8	91.8
87.5°	104.3	96.4	72.6	45.4	37.4	34.0	45.4	44.2	52.2	56.7	55.6
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)