

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: P191972

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191972
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-SL3-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 24013 lumens
Efficiency: N/A
Efficacy: 106.7 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

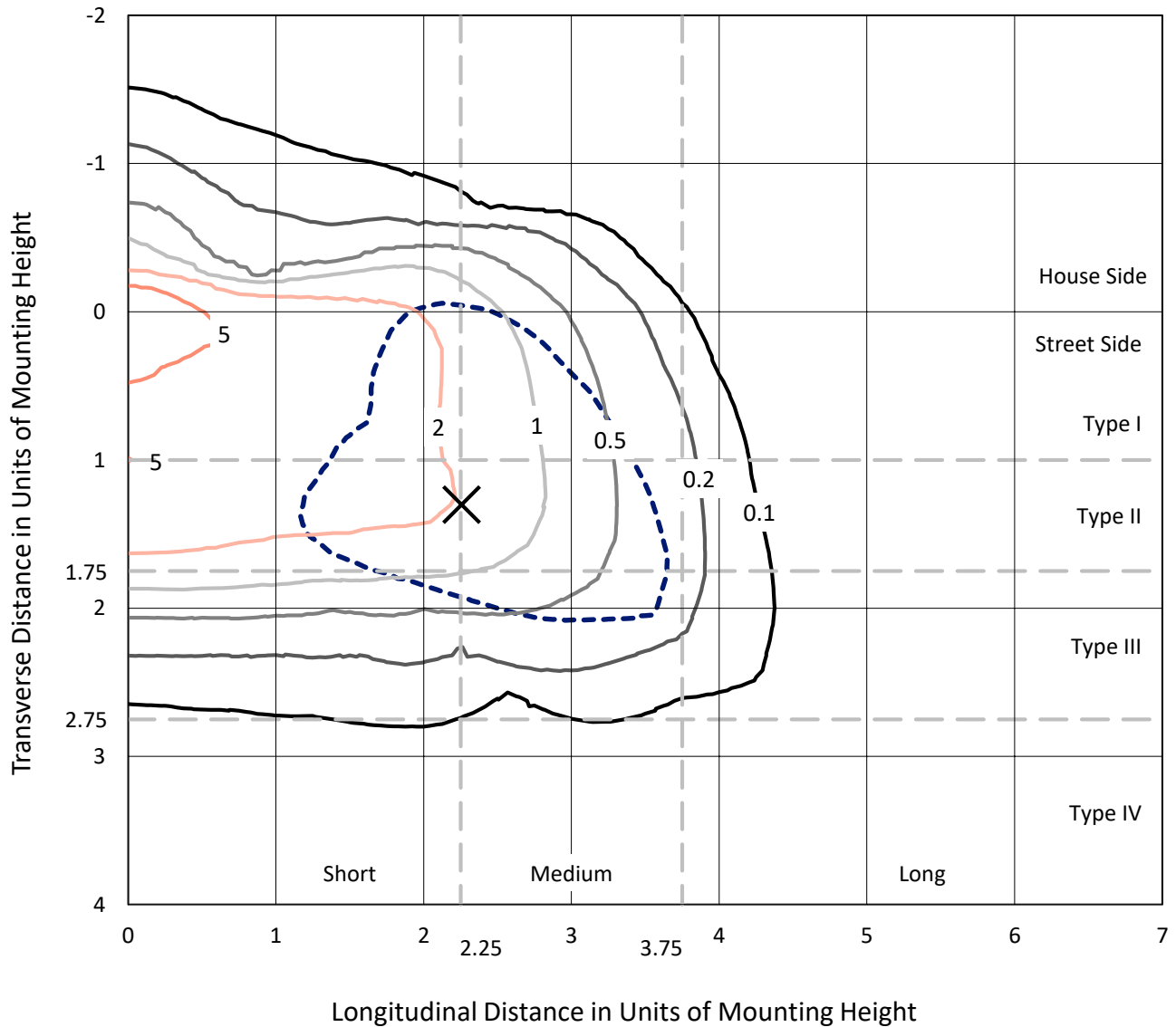
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

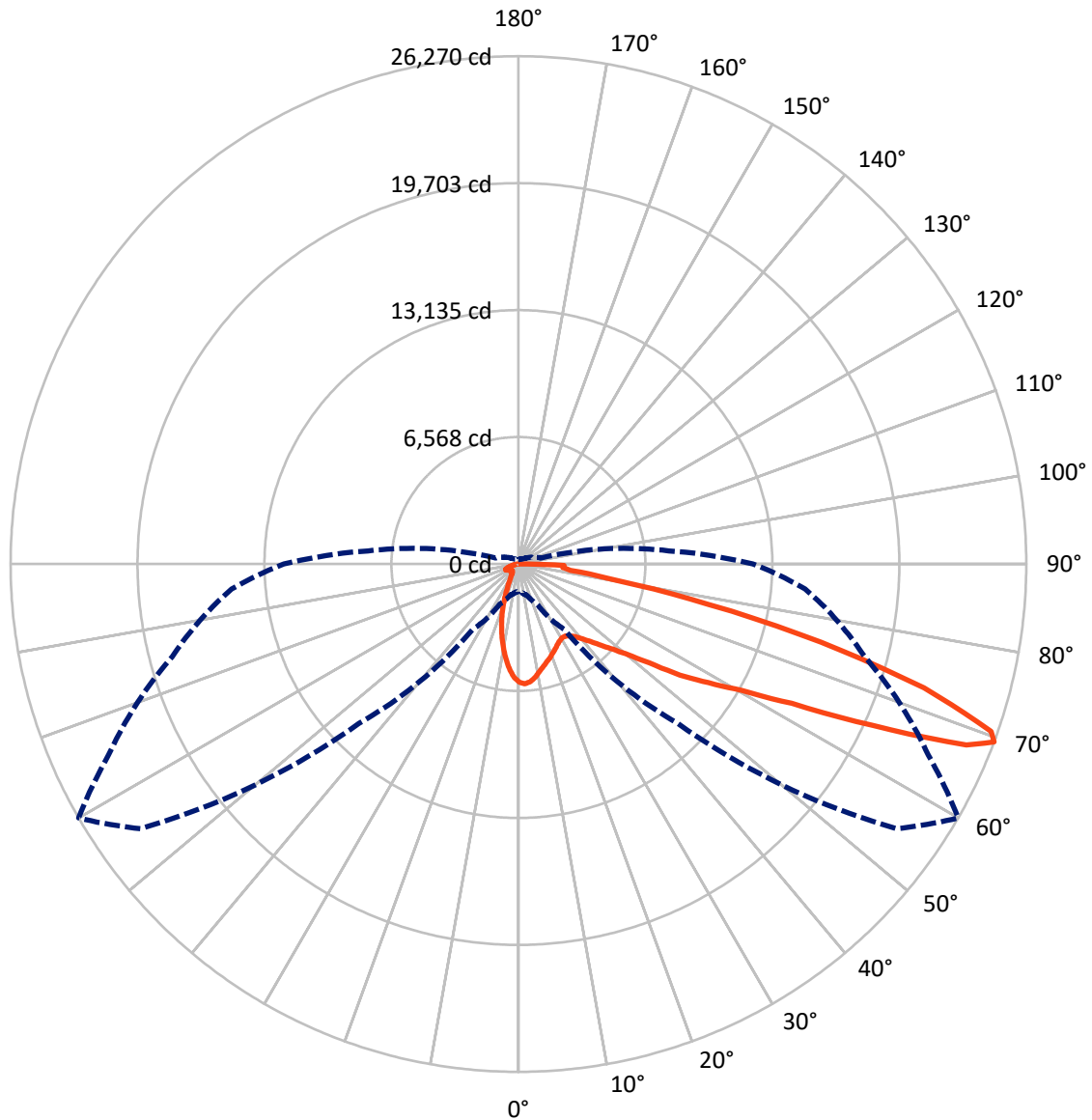
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	3416.3	0.0	3416.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	20596.7	0.0	20596.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	24013.0	0.0	24013.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.4	2.2
10°-20°	1102.3	4.6
20°-30°	1404.5	5.8
30°-40°	1930.9	8.0
40°-50°	3133.0	13.0
50°-60°	5024.6	20.9
60°-70°	6687.3	27.8
70°-80°	3610.6	15.0
80°-90°	602.5	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°	24013.0	100.0
0°-180°	24013.0	100.0



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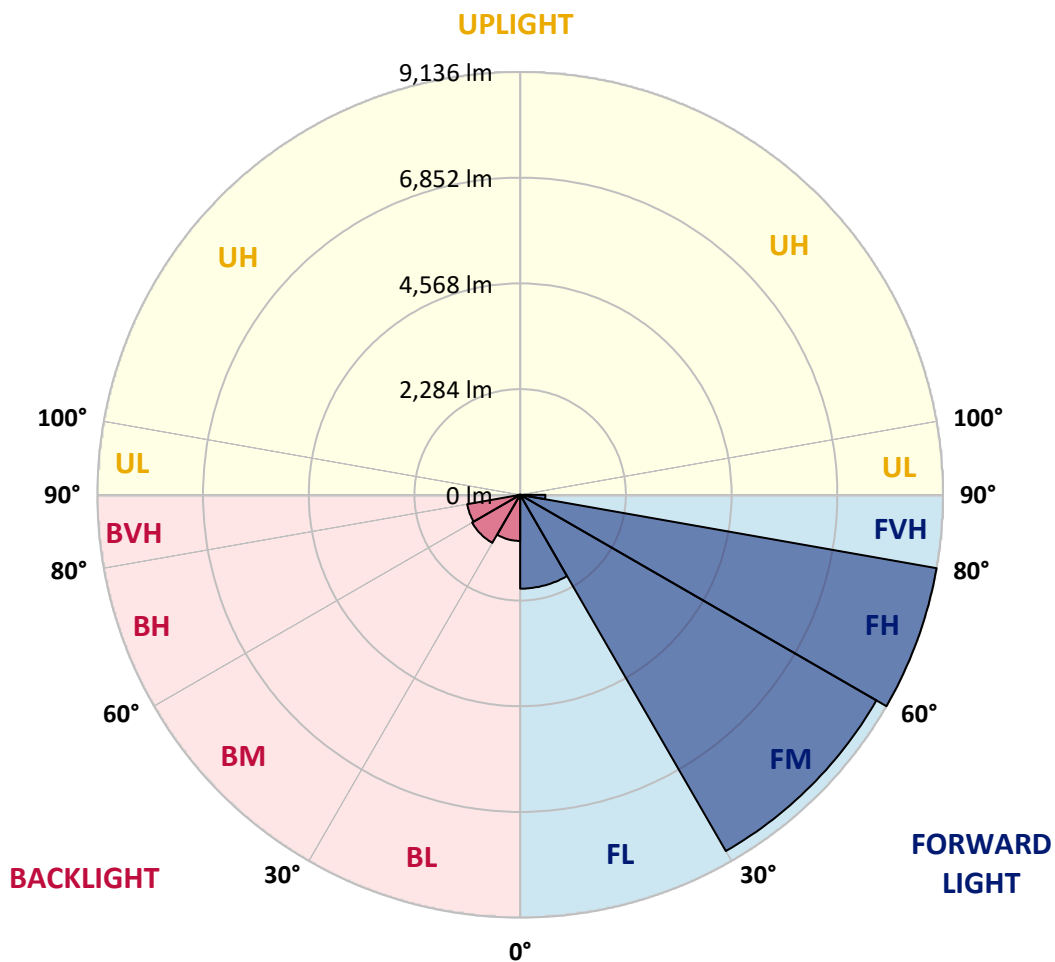
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.6	8.4			
FM (30°-60°)	8888.2	37.0			
FH (60°-80°)	9136.5	38.0			G4/12000
FVH (80°-90°)	544.4	2.3			G4/750
BL (0°-30°)	996.6	4.2	B2/1000		
BM (30°-60°)	1200.2	5.0	B2/2500		
BH (60°-80°)	1161.4	4.8	B3/2500		G3/2500
BVH (80°-90°)	58.0	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°	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9
2.5°	6244.2	6258.1	6252.3	6248.8	6259.2	6243.0	6209.4	6198.9	6182.7	6144.4	6079.4
5°	6009.8	6051.6	6049.3	6080.6	6132.8	6146.7	6131.6	6134.0	6103.8	6056.2	5948.4
7.5°	5605.0	5622.4	5631.7	5700.1	5795.2	5871.8	5936.8	5957.6	5943.7	5903.1	5763.9
10°	5187.4	5201.3	5223.4	5303.4	5424.1	5529.6	5652.6	5723.3	5753.5	5746.5	5591.1
12.5°	4829.0	4842.9	4871.9	4962.4	5106.2	5236.1	5414.8	5502.9	5574.8	5617.8	5450.7
15°	4507.7	4537.8	4565.7	4670.1	4831.3	5001.8	5203.7	5315.0	5426.4	5522.6	5326.6
17.5°	4257.1	4287.3	4303.5	4398.6	4570.3	4779.1	5015.7	5146.8	5286.0	5443.8	5203.7
20°	4112.1	4126.0	4119.1	4172.4	4326.7	4548.3	4829.0	4980.9	5149.1	5369.5	5080.7
22.5°	4071.5	4072.7	4047.2	4041.4	4141.1	4327.9	4629.5	4813.9	5020.4	5320.8	4975.1
25°	4170.1	4166.6	4097.0	4040.2	4050.6	4159.7	4436.9	4651.5	4912.5	5310.4	4893.9
27.5°	4389.4	4399.8	4296.6	4189.8	4084.3	4080.8	4290.8	4516.9	4824.3	5357.9	4859.1
30°	4696.7	4714.1	4603.9	4468.2	4269.9	4106.3	4233.9	4436.9	4769.8	5456.5	4853.3
32.5°	5033.1	5051.7	4968.2	4825.5	4565.7	4264.1	4273.4	4443.9	4767.5	5594.6	4892.8
35°	5391.6	5412.5	5369.5	5248.9	4960.1	4555.2	4424.2	4556.4	4842.9	5805.7	4998.3
37.5°	5791.8	5824.2	5835.8	5721.0	5412.5	4939.2	4671.2	4769.8	5013.4	6099.2	5192.1
40°	6368.3	6413.5	6410.0	6245.3	5931.0	5457.7	5052.9	5078.4	5279.1	6491.2	5501.8
42.5°	7472.6	7481.8	7193.0	6834.6	6501.7	6002.9	5502.9	5482.0	5645.6	6987.7	5957.6
45°	8877.3	8839.0	8196.4	7503.9	7097.9	6629.3	6088.7	5986.6	6110.8	7593.2	6528.3
47.5°	10043.1	9954.9	9142.9	8187.1	7728.9	7310.2	6776.6	6597.9	6666.4	8279.9	7266.1
50°	10447.9	10381.8	9709.0	8755.5	8326.3	8140.7	7623.4	7370.5	7389.1	9098.9	8130.3
52.5°	10360.9	10351.6	9902.7	9130.2	8885.4	9013.0	8822.8	8480.6	8299.6	10008.3	9062.9
55°	10155.6	10175.3	10012.9	9566.3	9524.6	9855.2	10389.9	10137.0	9574.4	10925.8	10026.8
57.5°	9442.2	9493.2	9850.5	10115.0	10553.5	11045.3	11652.0	11580.0	10946.7	11917.6	11172.9
60°	7607.1	7725.4	8683.6	10008.3	11612.5	13150.7	13422.1	13255.1	12361.9	13148.3	12686.7
62.5°	5330.1	5453.1	6592.1	8665.0	11438.5	15528.6	16586.5	15866.2	14394.2	14961.4	14645.9
65°	2853.5	2912.7	3782.7	6012.2	9656.8	16019.3	21211.3	20115.2	17611.9	17196.7	16322.0
67.5°	1574.1	1606.6	1939.5	3035.7	6185.0	14106.5	24157.7	24985.9	21633.6	18684.9	16017.0
69°	1423.3	1453.5	1671.5	2299.1	4138.8	11663.6	23870.0	26270.0	23396.7	18537.6	14889.5
70°	1392.0	1419.8	1615.8	2119.3	3350.0	9613.9	22906.1	25941.7	23816.6	18009.8	13905.8
72.5°	1252.8	1282.9	1473.2	1903.5	2862.8	4793.0	18144.4	21934.0	21623.1	15615.6	10547.7
75°	1168.1	1195.9	1518.4	1864.1	2741.0	3033.3	11961.7	16165.4	15895.2	10923.5	5687.4
77.5°	499.9	497.6	704.1	1577.6	2781.6	2937.1	6427.4	10098.8	9213.7	4668.9	1633.2
80°	334.1	328.3	334.1	464.0	2550.8	2953.3	3367.4	5125.9	3872.0	1190.1	805.0
82.5°	287.7	283.0	293.5	283.0	896.7	3370.9	2862.8	2725.9	1840.9	676.3	399.0
85°	193.7	185.6	252.9	254.0	423.4	2995.1	3224.7	2302.6	1489.4	401.4	197.2
87.5°	92.8	90.5	147.3	179.8	248.2	1216.8	3618.0	2359.4	1502.2	205.3	94.0
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°	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9
2.5°	6059.7	6012.2	5965.8	5910.1	5852.1	5787.1	5754.6	5722.2	5714.0	5704.8	5672.3
5°	5892.7	5825.4	5709.4	5581.8	5447.3	5316.2	5216.4	5153.8	5106.2	5081.9	5038.9
7.5°	5676.9	5578.3	5375.3	5154.9	4928.7	4722.3	4543.6	4431.1	4324.4	4274.5	4217.7
10°	5471.6	5324.3	5008.8	4684.0	4359.2	4047.2	3753.7	3546.0	3361.6	3258.4	3185.3
12.5°	5295.3	5093.5	4656.1	4216.5	3771.1	3326.8	2887.2	2541.5	2252.7	2100.7	2023.0
15°	5123.6	4880.0	4320.9	3763.0	3191.1	2586.7	2009.1	1617.0	1378.1	1282.9	1250.5
17.5°	4968.2	4656.1	3984.5	3305.9	2592.5	1861.8	1350.2	1134.5	1042.8	1011.5	1001.1
20°	4800.0	4430.0	3635.4	2828.0	1968.5	1301.5	1054.4	959.3	922.2	912.9	908.3
22.5°	4637.6	4207.2	3301.3	2316.5	1414.0	1004.5	905.9	866.5	860.7	868.8	868.8
25°	4499.5	4007.7	2940.5	1781.7	1038.2	845.6	810.8	801.5	823.6	853.7	859.5
27.5°	4396.3	3844.2	2556.6	1315.4	827.1	735.4	734.3	749.3	803.9	861.9	873.5
30°	4325.6	3688.7	2146.0	948.9	693.7	647.3	665.8	698.3	778.3	860.7	882.7
32.5°	4289.6	3573.9	1717.9	734.3	593.9	568.4	599.7	639.1	718.0	794.6	823.6
35°	4317.4	3489.2	1314.3	612.5	524.3	504.6	537.1	575.3	621.7	654.2	676.3
37.5°	4421.8	3455.6	991.8	548.7	476.8	458.2	483.7	505.7	524.3	533.6	544.0
40°	4646.9	3491.5	794.6	516.2	450.1	426.9	437.3	445.4	457.0	466.3	471.0
42.5°	4978.6	3599.4	712.2	503.4	436.2	402.5	400.2	403.7	418.8	436.2	439.6
45°	5442.6	3789.6	706.4	511.5	429.2	382.8	372.4	377.0	400.2	426.9	431.5
47.5°	6035.4	4079.6	752.8	535.9	435.0	372.4	355.0	360.8	389.8	425.7	431.5
50°	6753.4	4484.5	830.5	571.9	460.5	374.7	349.2	352.6	382.8	422.2	428.0
52.5°	7601.3	5058.7	915.2	606.7	487.2	389.8	353.8	345.7	373.5	408.3	415.3
55°	8544.4	5795.2	1002.2	638.0	501.1	408.3	363.1	336.4	356.1	385.1	390.9
57.5°	9702.0	6825.3	1153.0	668.1	510.4	421.1	372.4	327.1	334.1	355.0	359.6
60°	11269.2	8282.2	1418.7	718.0	531.3	425.7	371.2	319.0	312.0	323.6	326.0
62.5°	13147.2	9864.4	1640.2	780.7	566.1	429.2	364.2	313.2	293.5	293.5	295.8
65°	14261.9	10287.8	1517.2	832.9	595.1	425.7	356.1	307.4	279.6	266.8	268.0
67.5°	13316.5	9047.8	1300.3	843.3	593.9	409.5	343.4	297.0	265.6	245.9	244.8
69°	12132.2	7806.6	1202.9	815.5	566.1	388.6	327.1	285.4	255.2	234.3	233.2
70°	11177.5	7049.2	1139.1	785.3	535.9	373.5	314.4	274.9	247.1	227.4	225.0
72.5°	8126.8	4619.0	973.2	675.1	442.0	313.2	271.4	241.3	220.4	208.8	206.5
75°	4061.1	2202.8	789.9	547.5	338.7	250.6	222.7	201.8	191.4	189.1	187.9
77.5°	1334.0	1009.2	564.9	408.3	251.7	196.0	179.8	164.7	162.4	169.4	167.0
80°	733.1	586.9	358.4	270.3	171.7	143.8	141.5	133.4	136.9	148.5	146.2
82.5°	373.5	305.1	221.6	162.4	116.0	103.2	112.5	107.9	112.5	123.0	121.8
85°	184.4	167.0	140.4	98.6	76.6	66.1	80.0	83.5	85.8	94.0	94.0
87.5°	106.7	98.6	74.2	46.4	38.3	34.8	46.4	45.2	53.4	58.0	56.8
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)