

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: P323964

Luminaire Tested: **GLEON-SA0B-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33748 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

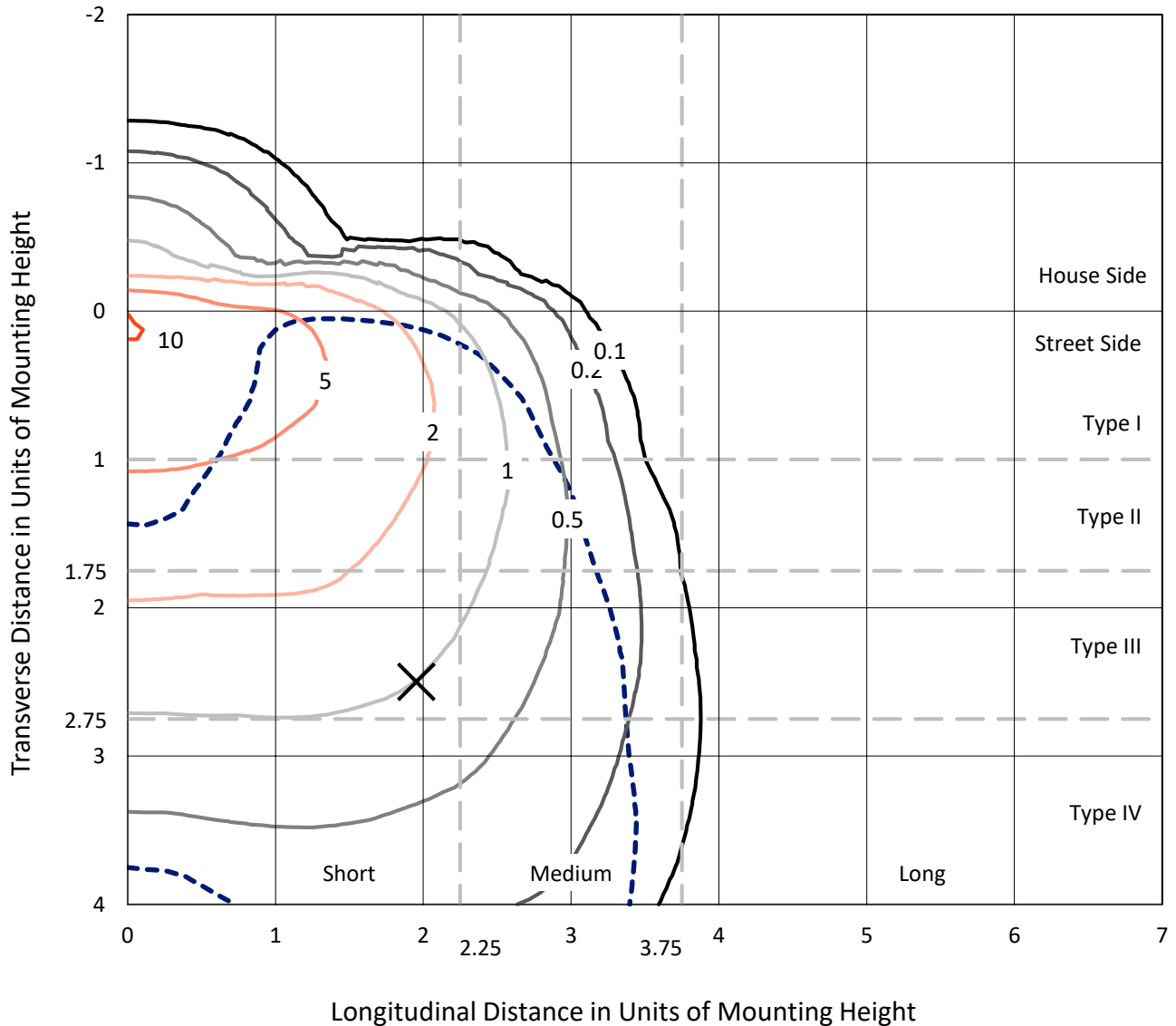
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

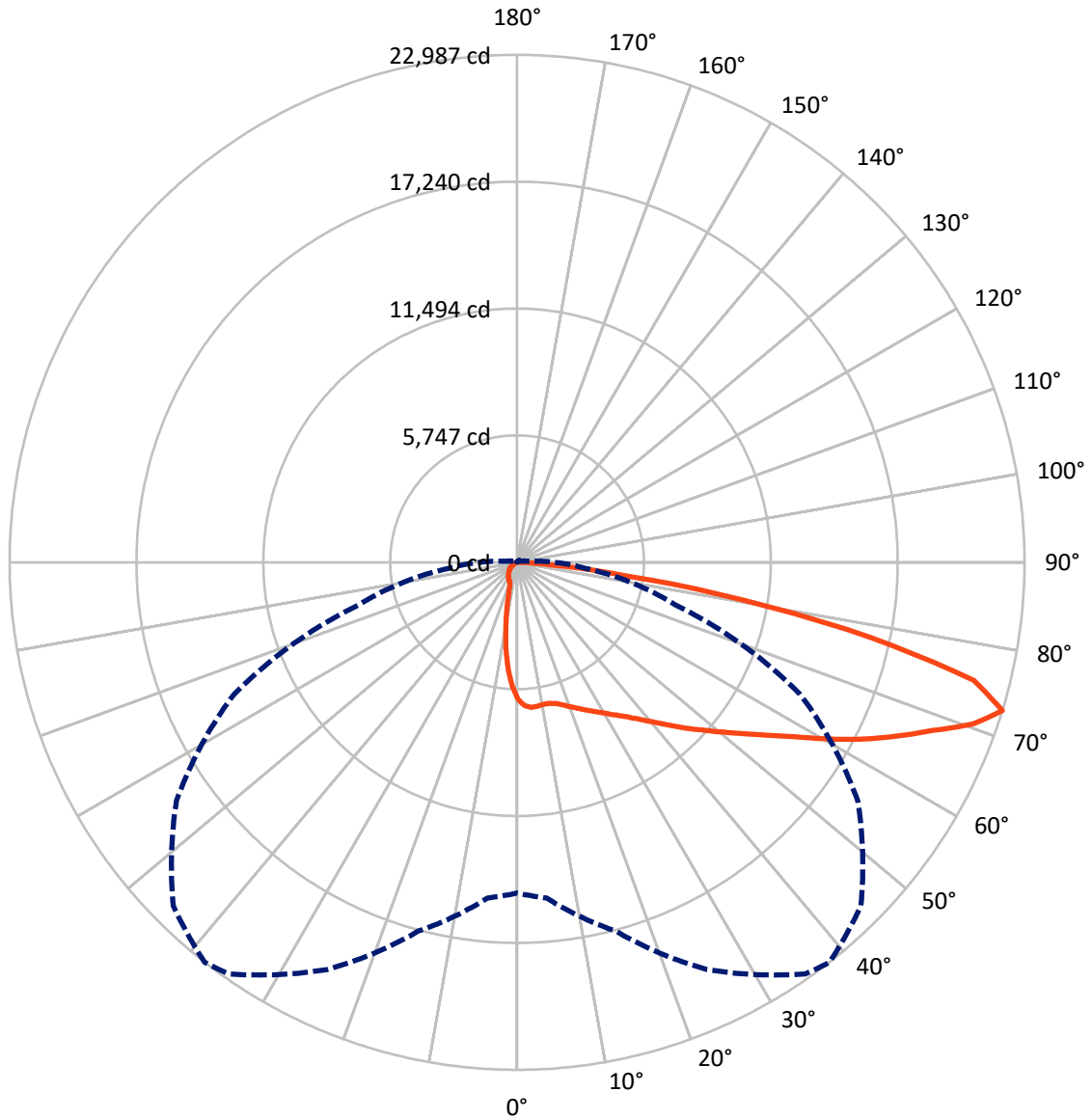
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2840.0	0.0	2840.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	30908.0	0.0	30908.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	33748.0	0.0	33748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.9	1.6
10°-20°	1293.2	3.8
20°-30°	2056.9	6.1
30°-40°	3092.3	9.2
40°-50°	4717.5	14.0
50°-60°	6667.4	19.8
60°-70°	8363.2	24.8
70°-80°	6253.3	18.5
80°-90°	775.4	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°	33748.0	100.0
0°-180°	33748.0	100.0

Coefficient of Utilization

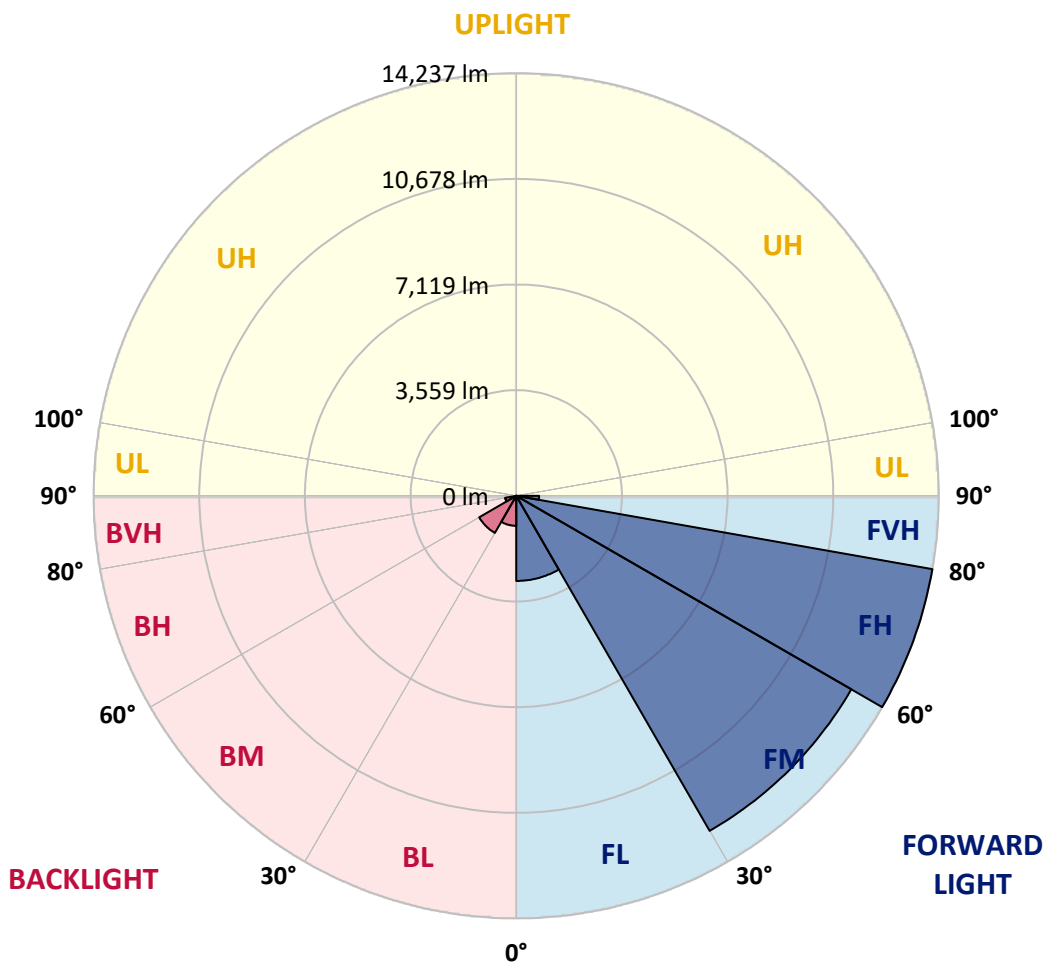


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2867.8	8.5			
FM (30°-60°)	13035.0	38.6			
FH (60°-80°)	14237.1	42.2			G5
FVH (80°-90°)	768.2	2.3			G5
BL (0°-30°)	1011.2	3.0	B3/2500		
BM (30°-60°)	1442.2	4.3	B2/2500		
BH (60°-80°)	379.4	1.1	B1/500		G1/500
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1
2.5°	6587.4	6588.8	6573.4	6548.1	6515.9	6499.1	6471.0	6426.2	6378.5	6293.0	6200.5
5°	6721.9	6721.9	6702.3	6668.7	6616.8	6601.4	6548.1	6476.6	6378.5	6239.8	6084.2
7.5°	6707.9	6710.7	6684.1	6649.0	6597.2	6583.2	6518.7	6438.8	6316.9	6148.7	5949.7
10°	6635.0	6642.0	6621.0	6604.2	6556.5	6541.1	6480.9	6401.0	6279.0	6099.6	5871.2
12.5°	6560.7	6567.8	6574.8	6590.2	6560.7	6555.1	6507.5	6440.2	6323.9	6137.5	5879.6
15°	6513.1	6527.1	6577.6	6637.8	6644.8	6639.2	6608.4	6545.3	6427.6	6234.2	5939.8
17.5°	6513.1	6535.5	6640.6	6755.6	6796.2	6800.4	6773.8	6685.5	6545.3	6337.9	5995.9
20°	6567.8	6598.6	6762.6	6925.2	6992.4	6992.4	6940.6	6817.2	6653.2	6431.8	6033.8
22.5°	6707.9	6748.6	6954.6	7142.4	7213.9	7198.5	7128.4	6949.0	6765.4	6538.3	6081.4
25°	6984.0	7014.9	7229.3	7418.5	7462.0	7426.9	7338.6	7108.8	6908.3	6682.7	6168.3
27.5°	7340.0	7344.2	7565.7	7725.4	7698.8	7675.0	7564.3	7309.2	7114.4	6888.7	6318.3
30°	7731.1	7731.1	7925.9	8047.8	7966.5	7946.9	7836.2	7551.7	7377.9	7169.0	6531.3
32.5°	8109.5	8126.3	8284.7	8361.8	8270.7	8251.0	8143.1	7858.6	7728.2	7596.5	6863.5
35°	8475.3	8487.9	8637.9	8679.9	8593.0	8598.6	8521.5	8280.5	8231.4	8214.6	7363.8
37.5°	8829.9	8832.7	8985.5	9012.1	8968.6	9016.3	9023.3	8810.3	8901.4	9037.3	8068.8
40°	9153.6	9156.4	9307.8	9376.5	9450.8	9512.4	9567.1	9453.6	9754.9	10070.3	8908.4
42.5°	9412.9	9442.4	9634.4	9764.7	9960.9	10078.7	10227.2	10221.6	10771.1	11244.8	9923.1
45°	9641.4	9691.8	9959.5	10188.0	10524.4	10712.2	10944.8	11127.1	11914.7	12552.4	10950.5
47.5°	9942.7	9990.4	10295.9	10670.1	11118.6	11365.3	11750.8	12144.6	13171.9	13836.3	11954.0
50°	10367.4	10346.4	10647.7	11184.5	11760.6	12084.3	12633.7	13223.8	14419.3	14954.7	12544.0
52.5°	10820.1	10811.7	11034.5	11743.7	12517.4	12895.8	13621.8	14339.4	15612.1	15725.6	12814.5
55°	11380.7	11320.5	11508.3	12381.5	13415.8	13822.3	14677.2	15443.9	16562.3	16160.1	12950.5
57.5°	11968.0	11868.5	12047.9	13092.1	14429.1	14909.9	15846.1	16520.3	17194.4	16457.2	12949.1
60°	12574.9	12457.1	12670.2	13980.6	15687.8	16244.2	17113.2	17247.7	17784.5	16607.2	12853.8
62.5°	13082.2	13012.2	13328.9	14930.9	17093.5	17640.1	18070.4	17909.2	18282.1	16723.5	12630.9
65°	13619.0	13623.2	14134.8	16039.6	18587.6	18956.2	18992.7	18767.0	18698.3	16699.7	11876.9
67.5°	14345.1	14412.3	15265.9	17544.8	20041.0	20325.5	20322.7	19696.2	19002.5	15752.2	10204.8
70°	15113.1	15271.5	16569.3	19267.4	21627.6	21916.3	21767.8	20287.7	17892.4	12737.5	7222.3
72.5°	14984.2	15258.9	17294.0	20353.6	22767.1	22987.1	22021.4	18834.3	14141.8	7403.1	3075.0
75°	11560.1	11878.3	15857.3	19277.2	21571.5	21373.9	18921.2	14656.2	7728.2	2065.9	692.4
77.5°	6106.6	6276.2	10475.3	14685.6	16820.2	16406.8	13328.9	8130.5	2356.0	511.6	311.1
80°	3198.4	3237.6	4564.9	8332.3	10381.4	10384.2	7899.2	3571.2	971.3	262.1	208.8
82.5°	1712.7	1746.4	2412.1	3850.1	5439.5	4930.7	3024.6	1965.0	564.8	148.6	200.4
85°	412.1	419.1	1367.9	1759.0	2138.8	1527.7	898.4	1649.6	152.8	86.9	162.6
87.5°	158.4	161.2	507.4	761.1	545.2	353.2	420.5	615.3	19.6	33.6	25.2
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°	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1	6206.1
2.5°	6144.5	6108.0	6018.3	5904.8	5803.9	5731.0	5621.7	5550.2	5502.6	5501.2	5482.9
5°	5988.9	5914.6	5721.2	5491.3	5282.5	5094.7	4873.3	4698.1	4567.7	4546.7	4501.8
7.5°	5822.1	5700.2	5403.0	5044.2	4693.9	4337.9	3924.4	3667.9	3447.9	3342.7	3331.5
10°	5719.8	5548.8	5126.9	4608.4	4058.9	3480.1	2939.1	2564.9	2294.4	2217.3	2159.8
12.5°	5698.8	5473.1	4913.9	4199.1	3414.2	2649.0	2050.5	1652.4	1436.6	1367.9	1349.7
15°	5719.8	5438.1	4734.5	3794.0	2761.1	1879.5	1376.3	1145.1	1063.8	1044.2	1042.8
17.5°	5732.4	5396.0	4531.3	3344.1	2127.6	1342.7	1054.0	986.7	974.1	972.7	975.5
20°	5731.0	5331.6	4288.8	2842.4	1582.4	1055.4	953.1	939.1	936.2	937.6	936.2
22.5°	5721.2	5255.9	4022.5	2325.2	1195.5	943.3	909.6	901.2	899.8	899.8	899.8
25°	5739.4	5195.6	3729.6	1830.4	985.3	891.4	870.4	863.4	862.0	862.0	859.2
27.5°	5805.3	5162.0	3408.6	1408.6	890.0	845.1	828.3	826.9	822.7	821.3	824.1
30°	5911.8	5162.0	3056.8	1096.0	832.5	797.5	784.9	782.1	780.7	779.3	780.7
32.5°	6099.6	5201.2	2672.8	911.0	777.9	744.2	735.8	740.0	735.8	735.8	735.8
35°	6438.8	5319.0	2270.5	794.7	720.4	692.4	684.0	689.6	686.8	686.8	685.4
37.5°	6933.6	5537.6	1865.5	724.6	669.9	640.5	629.3	637.7	634.9	634.9	633.5
40°	7536.2	5855.8	1480.1	671.4	620.9	590.1	580.2	584.5	577.4	577.4	580.2
42.5°	8280.5	6259.4	1143.7	619.5	571.8	542.4	536.8	532.6	520.0	513.0	514.4
45°	9107.4	6679.9	891.4	569.0	525.6	501.8	493.4	482.1	461.1	447.1	448.5
47.5°	9846.0	7003.6	724.6	520.0	483.5	465.3	452.7	431.7	400.8	384.0	385.4
50°	10234.3	7052.7	616.7	470.9	444.3	426.1	407.9	375.6	339.2	321.0	319.6
52.5°	10333.8	6822.8	536.8	426.1	405.1	384.0	360.2	316.8	276.1	256.5	253.7
55°	10370.2	6472.4	465.3	384.0	363.0	339.2	308.3	259.3	221.4	201.8	200.4
57.5°	10249.7	5949.7	409.3	346.2	321.0	291.5	253.7	207.4	171.0	155.6	155.6
60°	9982.0	5241.9	365.8	305.5	277.5	243.9	204.6	161.2	127.5	114.9	114.9
62.5°	9448.0	4325.2	325.2	263.5	236.9	201.8	165.4	121.9	89.7	82.7	84.1
65°	8440.2	3281.1	284.5	225.7	201.8	166.8	128.9	86.9	60.3	60.3	63.1
67.5°	6883.1	2279.0	242.5	192.0	173.8	136.0	98.1	60.3	42.0	47.7	53.3
70°	4556.5	1278.2	207.4	158.4	148.6	107.9	72.9	40.6	33.6	44.9	54.7
72.5°	1719.7	497.6	173.8	127.5	128.9	82.7	51.9	30.8	30.8	49.1	64.5
75°	479.3	243.9	124.7	93.9	100.9	60.3	37.8	26.6	29.4	56.1	75.7
77.5°	281.7	179.4	81.3	54.7	68.7	42.0	25.2	21.0	25.2	47.7	72.9
80°	227.1	95.3	47.7	28.0	37.8	23.8	16.8	12.6	7.0	18.2	37.8
82.5°	227.1	57.5	22.4	19.6	19.6	12.6	8.4	5.6	1.4	0.0	9.8
85°	152.8	23.8	14.0	12.6	9.8	4.2	2.8	1.4	0.0	0.0	0.0
87.5°	25.2	9.8	5.6	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
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)