

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: P383572

Luminaire Tested: **GLEON-SA8C-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40613.6 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

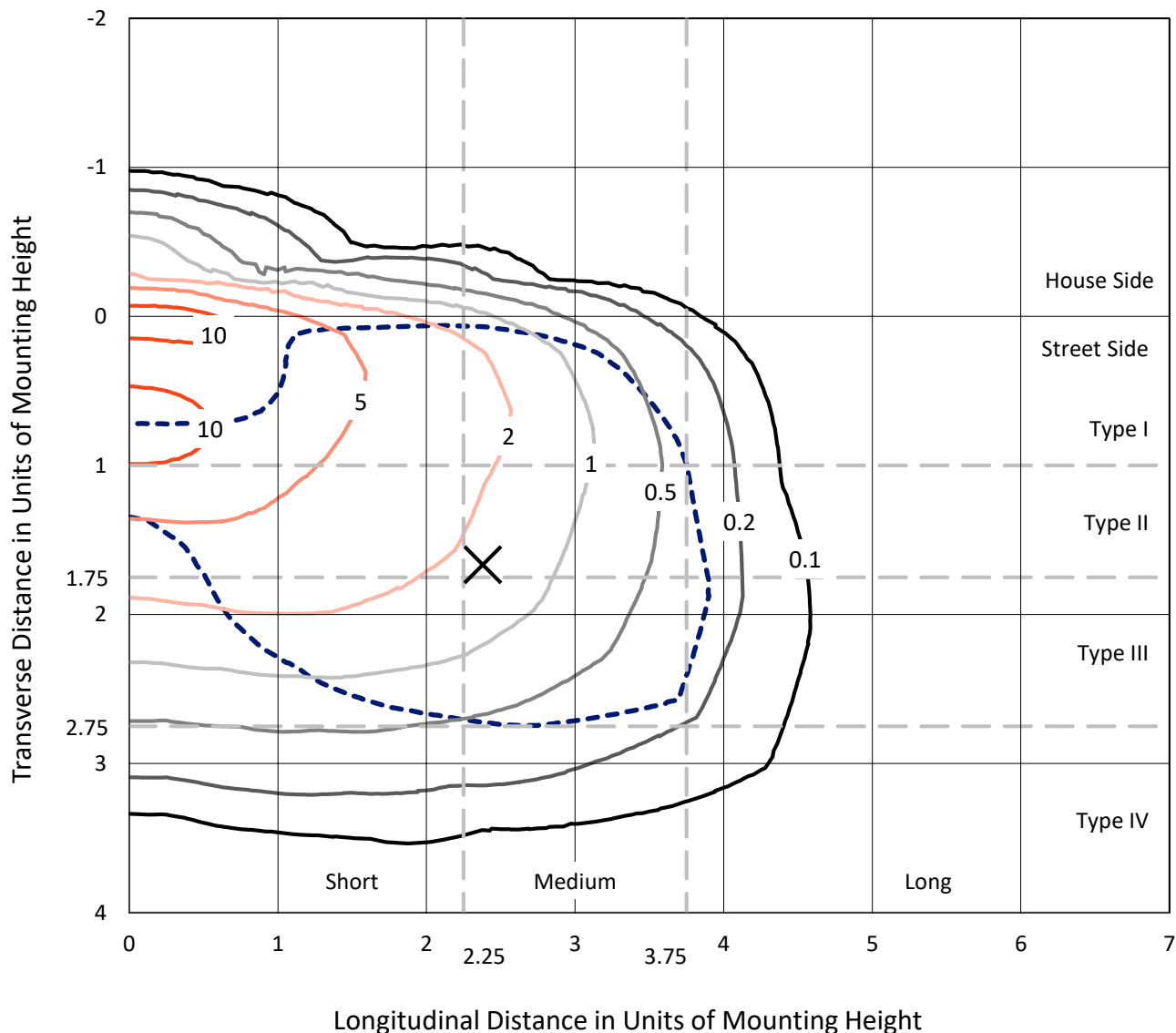
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

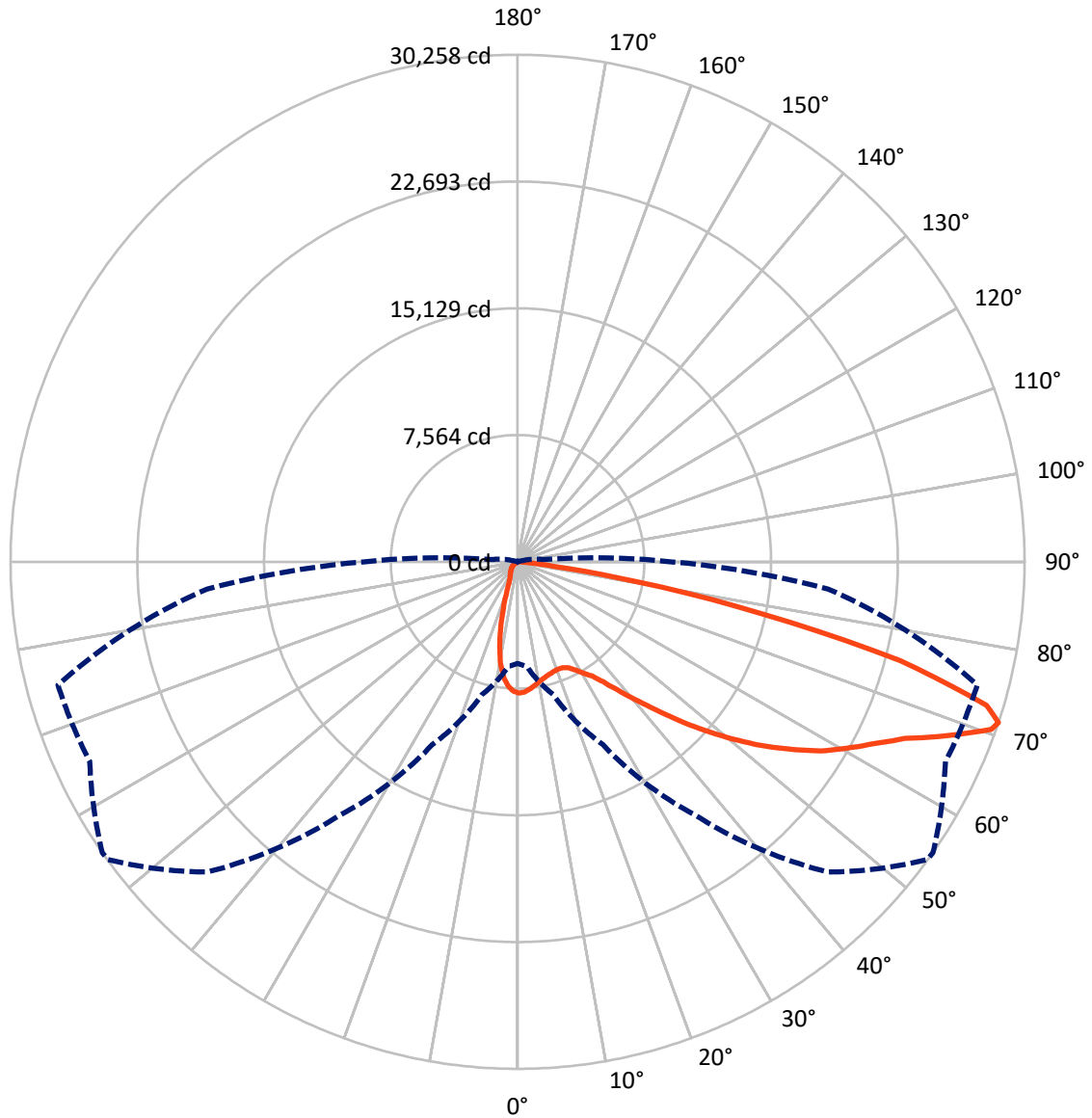
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P383572
CATALOG NUMBER: GLEON-SA8C-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3215.5	0.0	3215.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	37398.1	0.0	37398.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	40613.6	0.0	40613.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.8	1.6
10°-20°	1507.7	3.7
20°-30°	2422.9	6.0
30°-40°	4116.6	10.1
40°-50°	6389.4	15.7
50°-60°	8590.4	21.2
60°-70°	10508.9	25.9
70°-80°	6144.3	15.1
80°-90°	265.6	0.7
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°	40613.6	100.0
0°-180°	40613.6	100.0

Coefficient of Utilization

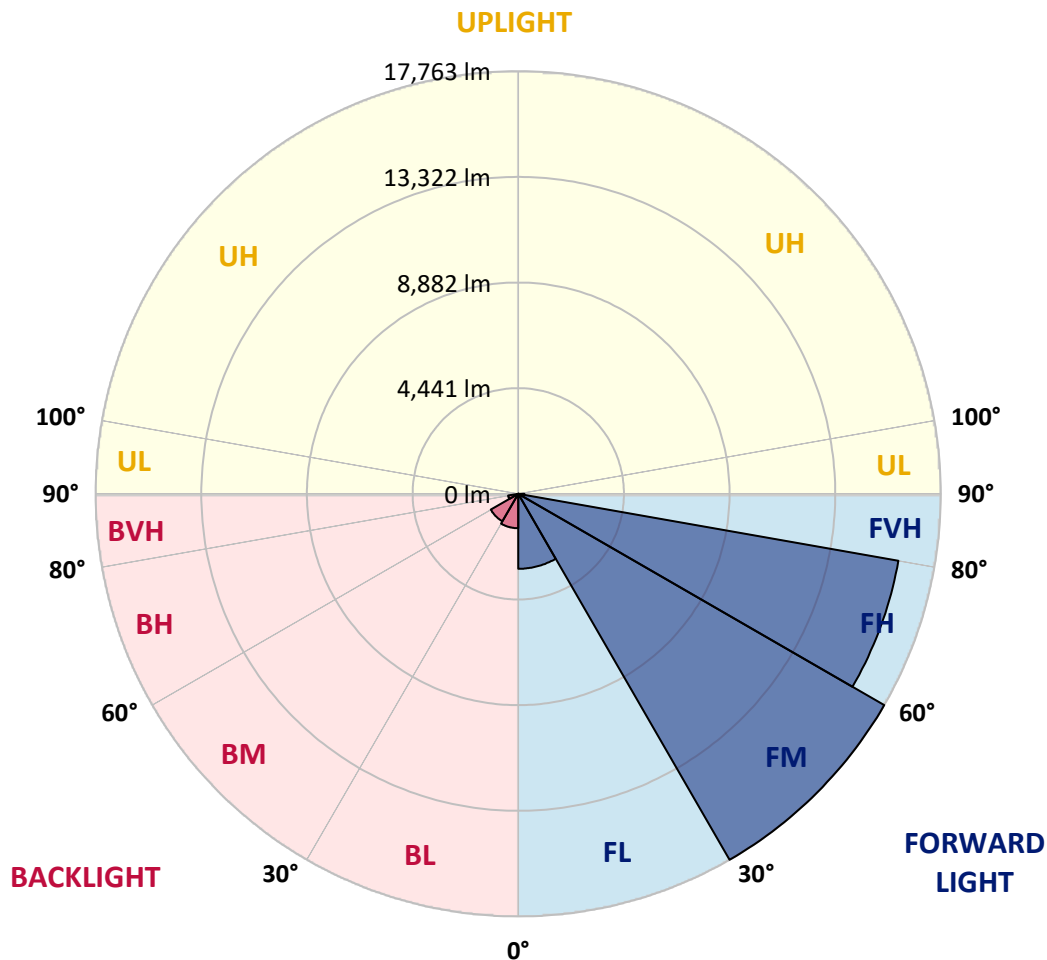


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3151.1	7.8			
FM (30°-60°)	17763.2	43.7			
FH (60°-80°)	16222.5	39.9			G5
FVH (80°-90°)	261.4	0.6			G3/500
BL (0°-30°)	1447.3	3.6	B3/2500		
BM (30°-60°)	1333.2	3.3	B2/2500		
BH (60°-80°)	430.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5
2.5°	7602.7	7611.9	7644.7	7659.3	7693.9	7752.2	7781.4	7783.3	7830.7	7848.8	7863.5
5°	7064.8	7119.4	7174.1	7232.5	7338.3	7478.7	7617.3	7630.0	7783.3	7896.3	7956.4
7.5°	6601.5	6650.8	6716.5	6809.4	6958.9	7179.6	7411.2	7438.6	7728.5	7985.7	8120.6
10°	6125.6	6165.7	6260.6	6397.3	6603.4	6898.8	7210.6	7256.2	7679.3	8106.0	8343.1
12.5°	5616.8	5640.5	5755.4	5952.3	6255.1	6630.8	7041.0	7101.2	7648.3	8244.7	8605.7
15°	5230.2	5241.1	5350.5	5554.7	5901.3	6390.0	6909.8	6982.7	7655.6	8410.6	8892.0
17.5°	5131.7	5137.2	5195.5	5335.9	5642.3	6174.8	6805.8	6895.1	7677.4	8572.8	9180.1
20°	5531.1	5492.8	5432.6	5410.7	5542.0	6045.4	6743.8	6844.1	7706.7	8717.0	9439.1
22.5°	6627.0	6514.0	6264.2	5930.4	5728.0	6054.4	6760.1	6860.5	7799.7	8893.9	9738.2
25°	8253.7	8096.9	7672.0	7015.5	6384.5	6317.0	6897.0	6999.1	7980.2	9105.4	10024.5
27.5°	10104.7	9949.7	9430.0	8492.6	7416.7	6836.8	7210.6	7305.5	8248.3	9293.2	10243.3
30°	11877.3	11833.5	11220.8	10155.8	8715.1	7679.3	7615.5	7695.7	8447.1	9406.3	10416.6
32.5°	13379.9	13310.7	12818.3	11782.5	10201.4	8691.4	8091.4	8115.2	8596.6	9552.2	10642.7
35°	14773.2	14687.5	14255.3	13276.0	11725.9	9927.9	8824.6	8789.9	8923.0	9845.8	10970.9
37.5°	15989.5	16068.0	15588.3	14656.5	13093.6	11213.5	9812.9	9709.0	9433.6	10323.6	11447.0
40°	17007.2	17007.2	16757.3	15980.4	14570.8	12542.9	10930.8	10794.0	10201.4	11060.3	12050.5
42.5°	17373.7	17452.1	17545.1	17105.6	15892.9	13925.2	12176.4	12034.1	11282.8	12105.3	12812.8
45°	17395.6	17519.6	17995.5	17993.8	17087.4	15298.4	13580.6	13513.1	12668.8	13447.4	13757.5
47.5°	17087.4	17242.4	18026.6	18471.6	18033.8	16576.8	15116.0	15032.2	14297.2	15092.4	14745.8
50°	16611.4	16782.9	17694.7	18659.4	18677.6	17689.2	16733.6	16607.8	16089.9	16972.5	15767.1
52.5°	15759.8	16091.6	17397.4	18703.1	19100.6	18650.2	18272.8	18218.0	18095.9	18783.4	16580.4
55°	13938.0	14306.3	16651.5	18717.7	19492.7	19501.9	19715.3	19729.8	19976.0	20475.7	17185.8
57.5°	13077.3	13285.2	15349.5	18787.0	20074.5	20468.4	21185.1	21298.2	21679.3	22082.3	17877.1
60°	12535.6	12781.8	14707.6	18692.2	20988.1	21735.8	22547.4	22585.7	22994.1	23740.0	18812.5
62.5°	12103.4	12346.0	14302.7	18327.5	22014.8	23260.4	23878.5	23882.3	24188.6	25715.0	19875.7
65°	11036.6	11240.8	13483.9	17917.1	22693.2	24768.5	25425.0	25401.3	25651.2	27797.6	21110.4
67.5°	9493.8	9650.6	11811.7	16361.6	22437.9	26139.9	27759.3	27680.8	27378.1	29597.5	21595.4
70°	7340.1	7396.7	9309.6	13635.2	20045.3	26666.9	30015.1	29975.0	28437.6	29274.7	19817.4
71°	6067.2	6253.2	8204.5	12034.1	18442.3	26180.0	30233.9	30257.6	28171.4	28395.7	18593.7
72.5°	3523.2	3681.9	5946.8	9242.2	15657.6	24148.5	29099.6	29271.1	26927.7	25828.0	15882.0
75°	755.0	807.8	2204.8	4473.4	8613.0	16925.1	22968.6	23579.5	21947.4	17570.7	9572.2
77.5°	525.2	567.1	944.7	2029.7	2846.7	8363.2	14268.0	14957.4	13111.9	6603.4	3063.7
80°	415.7	463.2	736.8	1003.0	769.6	2697.1	6683.6	7104.8	4373.1	1473.5	516.1
82.5°	231.6	275.4	574.5	541.6	295.4	512.4	1871.0	2115.5	875.4	297.3	122.2
85°	67.4	82.1	370.2	393.9	125.9	98.5	319.1	395.7	165.9	78.4	54.7
87.5°	0.0	0.0	178.7	151.4	36.5	14.6	29.2	32.8	32.8	32.8	36.5
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°	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5	7832.5
2.5°	7863.5	7876.2	7830.7	7770.5	7706.7	7628.3	7546.2	7482.4	7480.5	7449.5	7418.5
5°	7960.2	7952.8	7827.0	7635.5	7409.4	7174.1	6949.8	6696.3	6612.5	6508.5	6473.9
7.5°	8138.8	8087.8	7821.6	7402.1	6906.1	6413.7	5904.9	5392.4	5173.6	4976.7	4942.0
10°	8363.2	8266.5	7786.9	7052.0	6142.0	5233.8	4466.0	3769.4	3463.0	3227.8	3216.9
12.5°	8596.6	8448.9	7690.2	6523.2	5140.8	3864.2	2979.8	2294.1	2038.8	1874.6	1889.3
15°	8840.9	8620.3	7482.4	5810.1	4001.0	2622.4	1831.0	1427.9	1325.8	1283.9	1294.8
17.5°	9090.8	8738.8	7192.4	4951.2	2875.9	1692.3	1267.5	1154.4	1154.4	1163.5	1167.1
20°	9307.8	8802.7	6765.6	3988.2	1949.4	1232.8	1108.7	1092.3	1101.5	1116.1	1117.9
22.5°	9523.0	8806.3	6209.4	3012.6	1364.1	1079.6	1055.9	1048.5	1054.0	1070.4	1072.3
25°	9698.1	8762.5	5512.8	2142.7	1088.7	1017.6	1006.6	1003.0	1006.6	1026.7	1026.7
27.5°	9769.1	8603.9	4663.0	1506.3	975.6	948.3	944.7	948.3	953.7	968.3	970.2
30°	9776.5	8326.6	3736.6	1090.6	884.5	855.3	862.6	875.4	869.9	866.2	869.9
32.5°	9794.7	8005.7	2834.0	897.3	807.8	762.3	753.2	753.2	731.3	718.5	711.2
35°	9854.8	7628.3	2055.3	806.1	729.5	676.6	641.9	601.8	559.9	538.0	532.5
37.5°	9949.7	7232.5	1471.7	745.9	660.2	600.0	534.3	463.2	403.0	386.6	386.6
40°	10122.9	6824.1	1088.7	698.5	605.4	530.7	432.2	339.2	284.5	275.4	275.4
42.5°	10396.5	6393.7	868.0	656.5	558.0	459.5	330.0	246.2	206.1	200.6	198.8
45°	10681.0	5919.5	758.7	616.4	506.9	377.5	244.3	182.4	158.6	153.1	153.1
47.5°	10965.4	5414.3	705.7	578.1	457.8	293.6	182.4	144.1	133.1	133.1	135.0
50°	11206.2	4887.4	667.5	536.1	393.9	222.5	144.1	122.2	118.5	125.9	127.6
52.5°	11266.4	4369.4	620.0	483.3	315.5	169.6	118.5	107.6	107.6	107.6	107.6
55°	11229.9	3968.2	558.0	417.6	233.4	135.0	102.1	94.8	93.0	93.0	93.0
57.5°	11353.9	3731.1	446.8	324.6	167.8	109.5	89.3	83.9	80.2	78.4	78.4
60°	11603.7	3576.1	319.1	233.4	125.9	91.2	76.6	71.1	65.7	62.0	62.0
62.5°	11935.6	3441.2	237.1	173.3	96.7	72.9	63.8	58.3	51.0	47.4	47.4
65°	12191.0	3200.4	180.5	129.5	72.9	58.3	49.3	47.4	36.5	32.8	31.0
67.5°	11800.7	2671.6	145.9	94.8	54.7	45.6	38.3	36.5	21.9	18.3	18.3
70°	10121.2	1860.1	116.7	69.3	40.1	36.5	31.0	23.7	16.4	14.6	14.6
71°	9178.4	1553.7	105.7	58.3	34.7	34.7	29.2	20.0	14.6	12.8	12.8
72.5°	7624.6	1103.3	89.3	45.6	31.0	36.5	31.0	18.3	14.6	12.8	10.9
75°	4426.0	461.4	62.0	31.0	23.7	43.8	40.1	16.4	10.9	9.1	9.1
77.5°	1331.3	169.6	34.7	20.0	18.3	38.3	45.6	14.6	5.5	1.9	1.9
80°	242.6	72.9	21.9	12.8	12.8	23.7	34.7	7.3	0.0	0.0	0.0
82.5°	85.7	36.5	12.8	7.3	5.5	10.9	16.4	0.0	0.0	0.0	0.0
85°	49.3	25.5	7.3	3.6	0.0	1.9	3.6	0.0	0.0	0.0	0.0
87.5°	32.8	7.3	0.0	0.0	0.0	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)