

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: P192758

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-RW-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58247.2 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 558
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

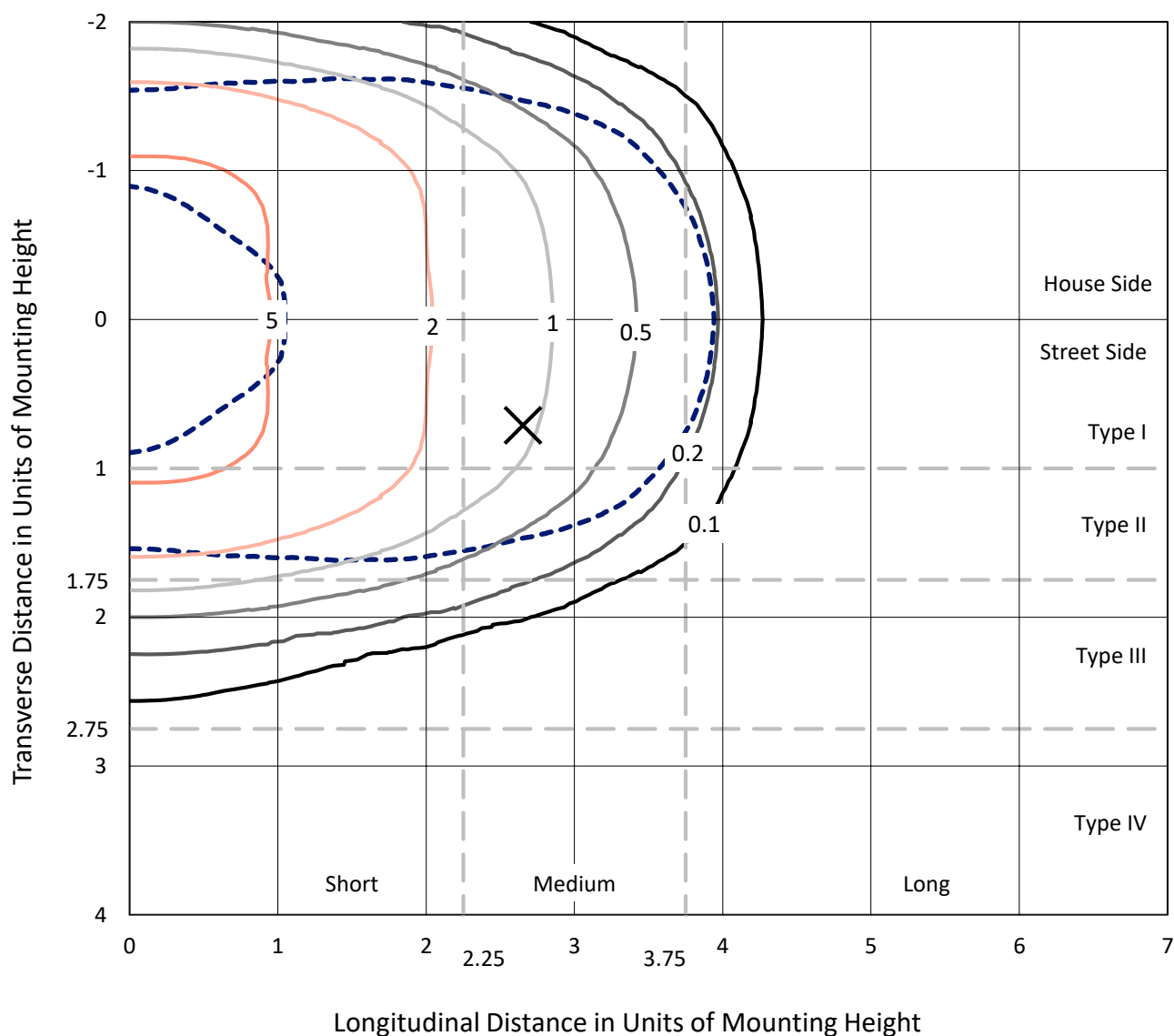


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

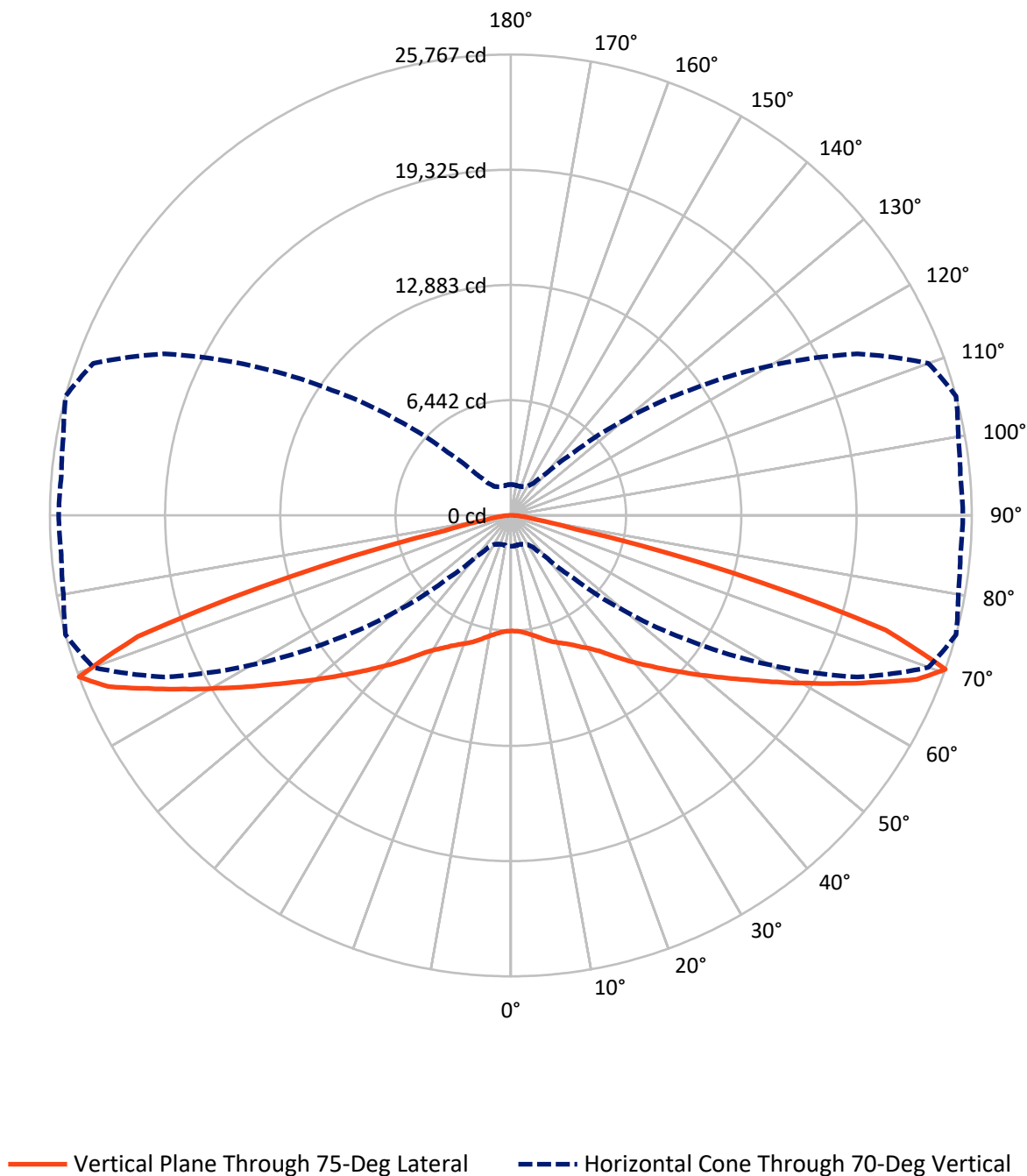


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29123.6	0.0	29123.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29123.6	0.0	29123.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	58247.2	0.0	58247.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.7	1.1
10°-20°	1925.4	3.3
20°-30°	3623.8	6.2
30°-40°	6417.1	11.0
40°-50°	10731.5	18.4
50°-60°	14954.3	25.7
60°-70°	13867.7	23.8
70°-80°	5526.7	9.5
80°-90°	580.9	1.0
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°	58247.2	100.0
0°-180°	58247.2	100.0

Coefficient of Utilization



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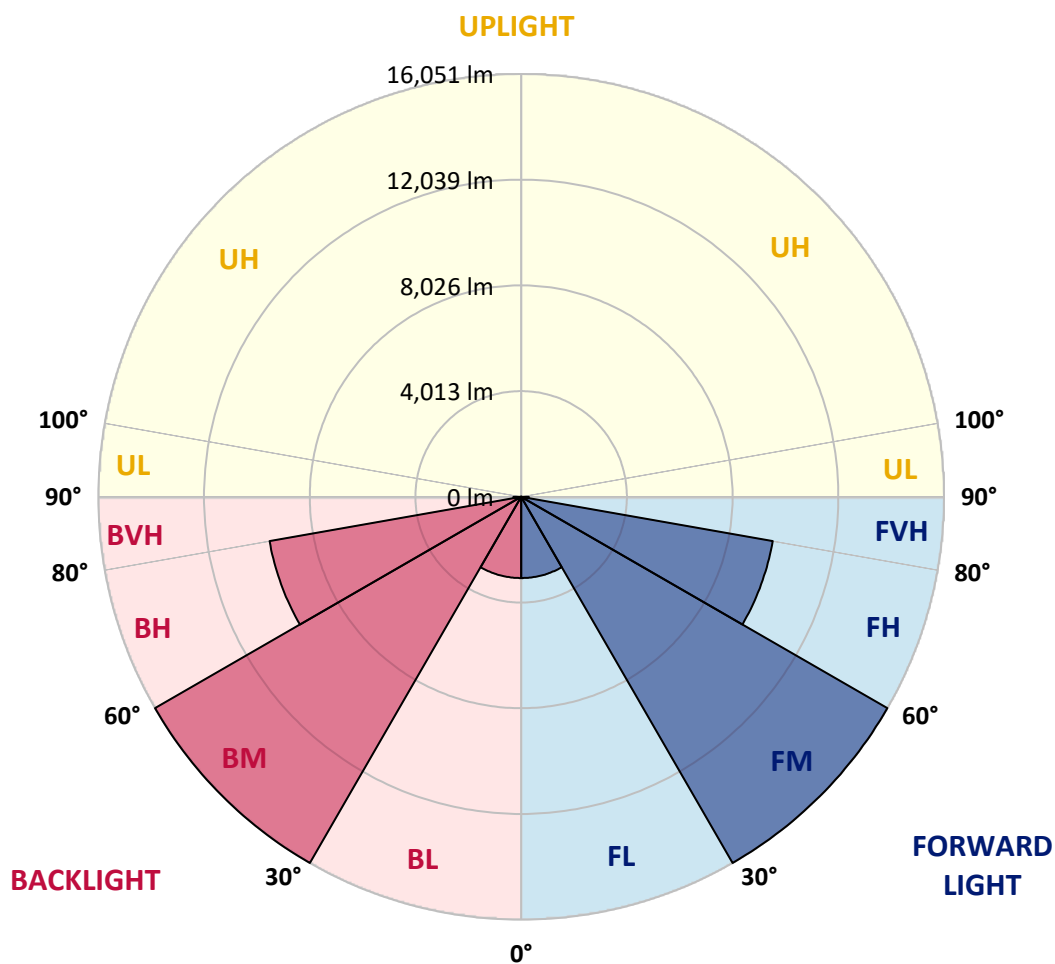
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3084.4	5.3			
FM	(30°-60°)	16051.5	27.6			
FH	(60°-80°)	9697.2	16.6			G4/12000
FVH	(80°-90°)	290.5	0.5			G3/500
BL	(0°-30°)	3084.4	5.3	B4/5000		
BM	(30°-60°)	16051.5	27.6	B5		
BH	(60°-80°)	9697.2	16.6	B5		G5
BVH	(80°-90°)	290.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9
2.5°	6450.0	6444.4	6450.0	6447.2	6452.8	6452.8	6458.2	6469.2	6469.2	6477.4	6474.7
5°	6386.6	6383.9	6392.1	6400.4	6408.7	6425.2	6441.7	6466.5	6485.7	6499.5	6513.3
7.5°	6262.7	6262.7	6273.7	6293.0	6312.4	6348.1	6386.6	6436.3	6485.7	6527.0	6562.8
10°	6160.9	6166.4	6180.1	6213.2	6246.3	6301.3	6353.7	6425.2	6494.1	6562.8	6617.9
12.5°	6100.4	6108.5	6133.4	6183.0	6237.9	6312.4	6392.1	6483.0	6560.0	6642.6	6697.7
15°	6119.6	6125.1	6160.9	6221.4	6293.0	6386.6	6494.1	6601.3	6692.2	6780.3	6854.6
17.5°	6227.0	6235.2	6276.5	6345.3	6419.6	6529.8	6645.3	6766.5	6879.4	6978.5	7069.4
20°	6419.6	6427.9	6480.2	6554.6	6642.6	6755.5	6871.1	6997.7	7124.4	7229.0	7330.9
22.5°	6692.2	6706.0	6755.5	6829.9	6929.0	7050.1	7187.7	7322.7	7443.8	7540.1	7630.8
25°	7050.1	7080.3	7127.2	7209.8	7314.4	7424.5	7573.1	7710.8	7826.4	7917.3	7983.3
27.5°	7556.6	7597.9	7633.7	7713.4	7815.5	7919.9	8068.7	8189.7	8299.9	8388.0	8437.5
30°	8228.4	8269.7	8305.4	8382.5	8476.2	8575.2	8715.6	8822.9	8891.7	8960.6	8957.8
32.5°	9043.2	9087.2	9101.0	9183.6	9279.9	9387.2	9513.9	9574.5	9629.6	9637.8	9588.3
35°	9954.4	9976.4	10031.4	10141.6	10251.7	10339.8	10460.9	10491.2	10491.2	10449.9	10339.8
37.5°	10953.7	10967.5	11044.5	11168.4	11281.2	11372.0	11454.6	11515.3	11484.9	11396.9	11212.4
40°	12049.3	12074.0	12184.1	12294.3	12420.9	12506.3	12594.4	12605.4	12575.0	12445.7	12195.2
42.5°	13095.4	13117.4	13227.5	13400.9	13566.0	13684.5	13767.1	13783.6	13687.2	13568.9	13257.8
45°	13995.6	14053.4	14196.5	14400.3	14639.7	14807.7	14920.6	14967.3	14881.9	14727.8	14367.1
47.5°	14708.6	14766.4	14970.0	15212.2	15509.7	15782.2	15969.4	16068.4	16046.5	15930.9	15537.2
50°	15231.7	15286.7	15506.8	15804.3	16151.0	16489.6	16809.0	17045.7	17128.3	17076.0	16715.3
52.5°	15292.2	15383.0	15641.8	16040.9	16492.3	16954.9	17409.2	17811.0	18083.6	18124.9	17857.9
55°	14447.1	14537.9	14895.8	15487.6	16159.3	16913.6	17640.4	18317.6	18854.4	19129.6	18989.3
57.5°	12453.9	12616.3	12993.5	13687.2	14675.4	15804.3	16963.1	18166.1	19259.0	19988.6	20129.0
60°	9544.3	9736.8	10116.8	10854.6	11955.7	13301.9	14849.0	16627.3	18557.0	20197.7	21177.8
62.5°	6122.4	6304.0	6703.3	7344.6	8242.1	9701.1	11361.1	13472.5	16065.7	18656.1	20990.6
65°	3146.5	3245.6	3454.9	3842.9	4542.2	5632.4	7121.6	9227.6	12192.5	15388.5	18763.5
67.5°	1993.1	2012.3	2059.1	2114.1	2293.2	2670.3	3364.0	4677.2	7116.2	10449.9	14400.3
70°	1723.3	1723.3	1701.2	1693.0	1715.1	1767.4	1874.7	2180.3	3003.4	4960.7	8305.4
72.5°	1577.3	1560.9	1522.3	1492.1	1486.6	1486.6	1508.6	1555.5	1687.5	2020.6	3251.1
75°	1453.4	1406.7	1354.4	1318.6	1304.9	1291.1	1288.3	1296.6	1324.1	1376.4	1552.6
77.5°	1302.2	1241.5	1181.0	1145.1	1128.6	1109.4	1092.9	1073.6	1059.9	1076.4	1153.4
80°	1120.5	1051.6	1004.7	982.8	966.3	938.7	902.9	869.9	839.6	834.0	880.9
82.5°	902.9	823.2	825.9	834.0	803.8	765.3	726.8	690.9	638.6	611.1	638.6
85°	729.6	688.3	669.0	721.2	677.2	619.4	558.9	495.5	412.9	346.9	377.2
87.5°	283.5	283.5	423.9	652.4	586.4	479.0	410.2	349.6	217.4	167.9	170.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9
2.5°	6472.0	6477.4	6474.7	6472.0	6472.0	6469.2	6472.0	6472.0
5°	6521.5	6535.4	6535.4	6540.8	6540.8	6543.5	6546.3	6543.5
7.5°	6595.9	6620.7	6637.2	6656.4	6659.2	6662.0	6667.4	6662.0
10°	6670.2	6719.8	6755.5	6791.3	6807.8	6813.3	6818.9	6818.9
12.5°	6763.8	6832.6	6895.9	6959.3	6989.6	7006.0	7006.0	7017.0
15°	6918.0	6986.8	7061.1	7146.4	7198.8	7226.3	7234.5	7234.5
17.5°	7135.4	7196.1	7259.3	7341.9	7408.0	7443.8	7452.0	7449.3
20°	7388.6	7446.4	7482.3	7534.6	7592.4	7633.7	7644.7	7644.7
22.5°	7677.7	7710.8	7716.3	7732.9	7779.6	7834.7	7859.4	7864.9
25°	7997.1	8005.3	7983.3	7983.3	8013.6	8065.8	8090.6	8093.4
27.5°	8410.0	8368.7	8313.6	8294.4	8313.6	8374.1	8404.4	8415.4
30°	8924.8	8825.6	8699.0	8630.3	8619.3	8699.0	8754.1	8762.4
32.5°	9513.9	9370.7	9202.8	9062.4	9026.7	9076.1	9142.3	9139.5
35°	10213.1	10042.4	9838.7	9659.8	9577.2	9626.8	9720.4	9731.4
37.5°	11019.7	10796.8	10562.7	10337.0	10207.6	10221.4	10320.5	10353.5
40°	11919.8	11630.8	11336.3	11033.4	10849.0	10813.3	10934.3	10953.7
42.5°	12883.5	12511.8	12140.2	11765.7	11529.0	11474.0	11614.4	11606.1
45°	13910.3	13436.7	13001.8	12588.9	12308.0	12225.4	12341.1	12341.1
47.5°	15014.1	14430.5	13913.0	13445.0	13139.4	13021.1	13131.3	13139.4
50°	16184.1	15564.7	14956.3	14436.0	14069.9	13918.4	14061.6	14083.6
52.5°	17348.5	16745.6	16131.8	15537.2	15093.9	14909.5	15074.7	15146.3
55°	18529.5	17937.6	17351.4	16770.4	16244.6	16027.1	16203.3	16294.2
57.5°	19776.6	19228.7	18669.9	18083.6	17577.1	17238.5	17425.6	17546.7
60°	21238.4	20770.4	20189.5	19542.5	19030.6	18686.4	18793.8	18901.2
62.5°	22394.6	22576.2	22083.5	21334.7	20676.8	20236.4	20340.9	20453.8
65°	21835.7	23699.4	24137.1	23380.1	22468.8	21783.4	21739.4	21797.2
67.5°	18251.5	21871.5	24511.5	25232.8	24470.2	23517.7	23341.5	23426.9
70°	12208.9	16718.2	21376.0	24844.6	25766.8	25398.0	25224.4	25276.8
72.5°	5863.6	9736.8	14502.1	19113.2	21921.0	23209.4	23622.3	23823.3
75°	2144.4	3865.0	6989.6	10532.5	12715.5	14719.5	16027.1	16561.2
77.5°	1293.8	1560.9	2232.6	3361.3	3807.2	4261.4	4085.2	4173.3
80°	957.9	1081.8	1225.1	1376.4	1426.0	1426.0	1370.8	1326.9
82.5°	671.7	751.4	820.3	902.9	925.0	883.7	726.8	578.1
85°	432.2	467.9	498.2	550.5	536.8	512.0	344.0	305.6
87.5°	198.2	225.7	236.8	261.5	250.5	239.5	170.7	143.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)