

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: P193647

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46664 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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

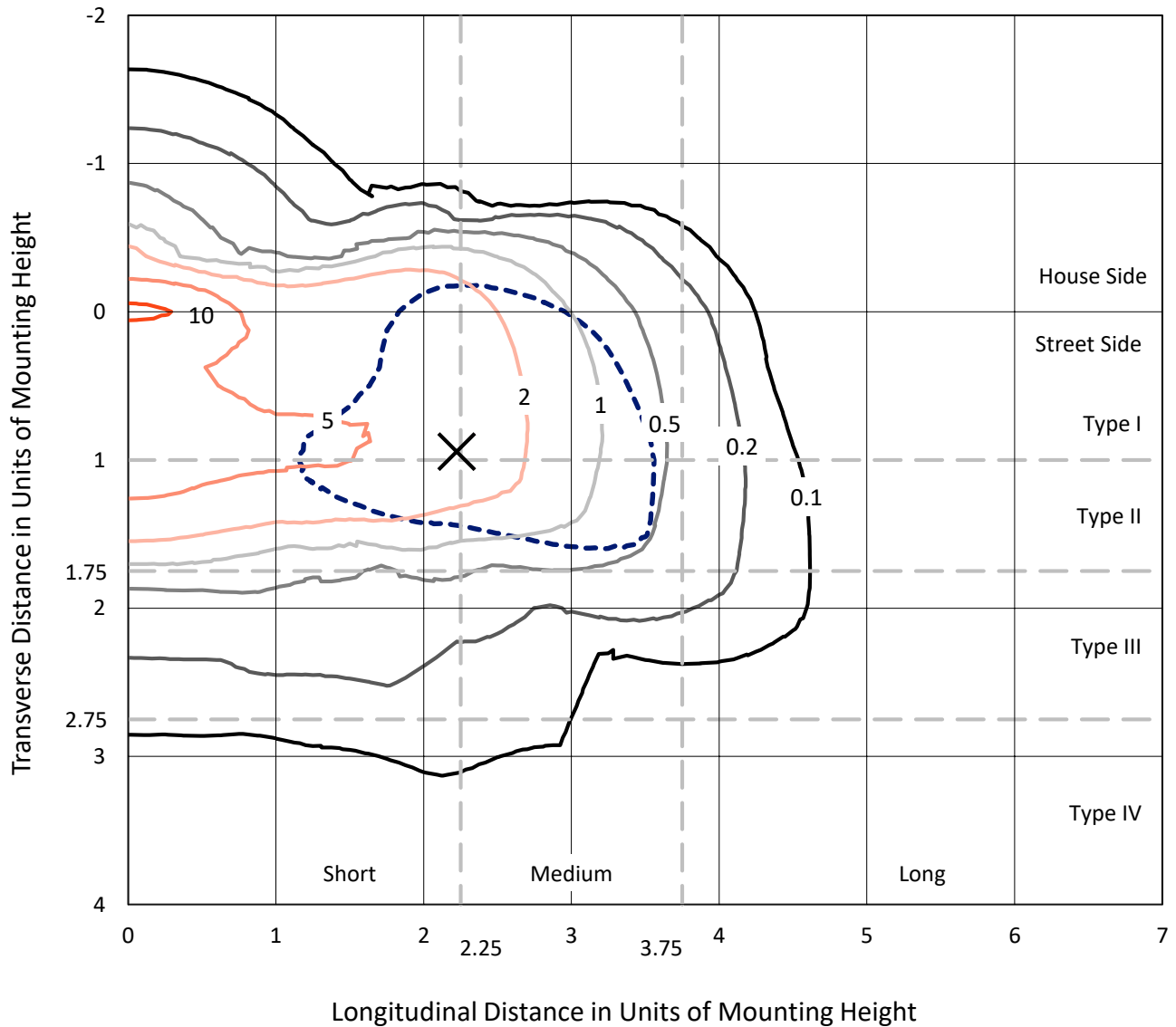


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

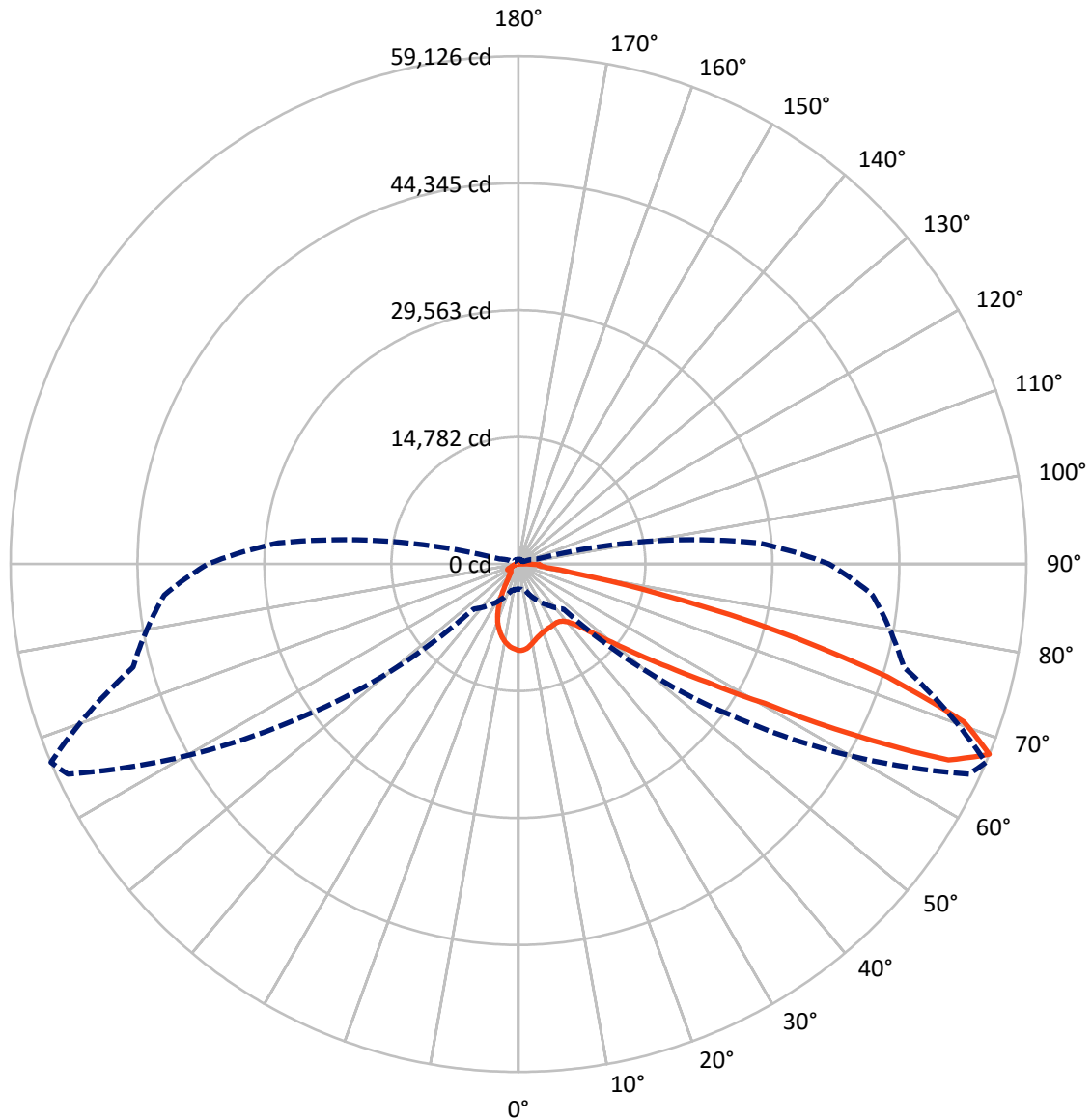


Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7731.7	0.0	7731.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	38932.3	0.0	38932.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	46664.0	0.0	46664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.7	1.8
10°-20°	1986.9	4.3
20°-30°	2693.3	5.8
30°-40°	3828.9	8.2
40°-50°	6405.8	13.7
50°-60°	10134.0	21.7
60°-70°	12909.7	27.7
70°-80°	6762.1	14.5
80°-90°	1084.5	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°	46664.0	100.0
0°-180°	46664.0	100.0

Coefficient of Utilization



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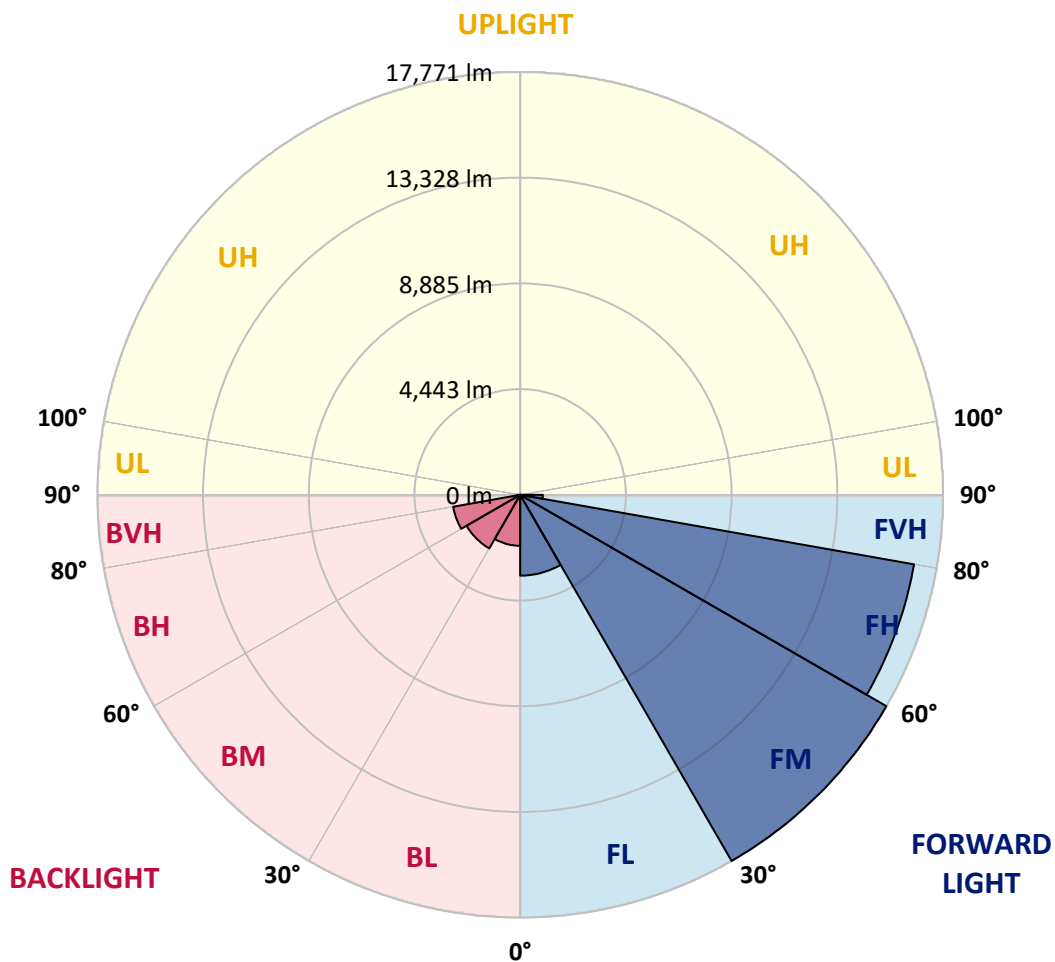
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3396.0	7.3			
FM (30°-60°)	17770.6	38.1			
FH (60°-80°)	16812.1	36.0			G5
FVH (80°-90°)	953.6	2.0			G5
BL (0°-30°)	2143.0	4.6	B3/2500		
BM (30°-60°)	2598.1	5.6	B3/5000		
BH (60°-80°)	2859.7	6.1	B4/5000		G4/5000
BVH (80°-90°)	130.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3
2.5°	9651.1	9667.2	9717.8	9750.1	9895.0	9957.2	10000.9	10044.6	10051.5	10072.2	10051.5
5°	8638.6	8673.1	8767.5	8873.3	9154.0	9375.0	9607.4	9849.0	9892.7	10049.2	10092.9
7.5°	7853.9	7844.7	7922.9	8049.5	8337.1	8643.2	9050.5	9531.4	9625.8	9977.9	10148.2
10°	7280.9	7274.0	7356.8	7488.0	7761.8	8051.8	8512.0	9170.2	9303.6	9865.1	10201.1
12.5°	6857.5	6859.8	6942.6	7087.6	7366.0	7658.3	8125.4	8820.4	8990.7	9733.9	10256.3
15°	6576.7	6595.1	6661.9	6816.1	7087.6	7379.8	7837.8	8558.0	8749.0	9630.4	10318.4
17.5°	6482.4	6512.3	6535.3	6648.1	6880.5	7172.7	7621.5	8364.7	8567.2	9559.1	10373.7
20°	6569.8	6604.4	6560.6	6599.8	6747.0	7004.8	7451.2	8212.9	8420.0	9478.5	10380.6
22.5°	6944.9	6977.1	6848.3	6735.5	6726.3	6882.8	7310.8	8093.2	8307.2	9418.7	10382.9
25°	7605.4	7626.1	7409.8	7147.4	6892.0	6839.1	7211.9	8010.4	8238.2	9365.8	10339.1
27.5°	8415.4	8431.5	8183.0	7796.4	7283.2	6942.6	7177.3	7962.0	8199.1	9319.7	10265.5
30°	9400.3	9476.2	9142.5	8654.7	7906.8	7248.7	7246.4	7936.7	8155.3	9241.5	10120.5
32.5°	10408.2	10440.4	10210.3	9715.5	8746.7	7787.2	7439.7	7955.1	8143.8	9147.1	9936.4
35°	11429.9	11471.3	11321.7	10923.6	9895.0	8576.5	7817.1	8063.3	8215.2	9114.9	9807.6
37.5°	12753.1	12808.3	12601.2	12141.0	11291.8	9646.5	8445.3	8334.8	8433.8	9207.0	9768.5
40°	14844.8	14819.5	14214.3	13528.6	12819.8	11015.7	9342.7	8795.1	8852.6	9503.8	9888.1
42.5°	17279.5	17217.3	16174.9	15098.0	14499.7	12672.5	10530.1	9593.6	9582.1	10088.3	10309.2
45°	19221.7	19171.0	18232.2	16904.4	16425.7	14559.5	12065.0	10783.3	10698.1	11015.7	11087.0
47.5°	20273.3	20275.6	19734.8	18651.0	18639.5	16957.3	14037.1	12504.5	12357.3	12506.9	12430.9
50°	19905.1	19953.4	19895.9	19550.7	20659.9	20100.7	16612.1	14904.7	14607.8	14755.1	14462.8
52.5°	18124.0	18186.1	18526.7	19056.0	21509.0	23899.9	20395.3	17887.0	17541.8	17488.9	17164.4
55°	14966.8	15042.7	15737.7	17175.9	20802.6	26451.9	26364.5	21688.5	21138.5	20639.2	20501.1
57.5°	10316.1	10442.7	11561.1	13696.6	18517.5	27222.8	33472.8	27107.8	25989.4	24245.1	24277.3
60°	5815.1	5962.3	7280.9	9220.8	13906.0	26385.2	38880.5	35316.0	32955.0	28467.8	28707.1
62.5°	3698.0	3856.8	4857.8	6406.5	8344.0	21874.9	41096.6	46727.5	43729.1	33673.0	33907.7
65°	2993.8	3062.9	3534.6	5288.1	6059.0	13178.8	39414.4	56127.8	55009.4	40279.7	39184.3
67.5°	2922.5	2945.5	3189.4	4439.0	5810.5	7407.5	31438.6	57885.9	59126.2	46449.1	41381.9
70°	2888.0	2968.5	3594.4	4236.5	5564.2	6247.7	18892.6	53067.2	55025.5	48062.2	38457.1
72.5°	1401.4	1396.8	1808.7	3831.4	6268.4	6480.1	9706.3	42937.5	44902.7	41639.6	31601.9
75°	1129.9	1033.2	987.2	1403.7	6026.8	6691.8	6185.5	29544.7	30966.8	27917.8	19426.5
77.5°	1072.3	957.3	876.7	879.0	2547.4	7096.8	5239.8	16352.1	16766.3	12610.4	5322.6
80°	888.3	782.4	724.9	816.9	1233.4	6758.5	5665.5	7400.6	6790.7	3097.4	1771.9
82.5°	616.7	561.5	545.4	685.7	987.2	4816.3	6588.2	3976.4	3334.4	1551.0	1093.1
85°	393.5	336.0	372.8	499.4	768.6	2222.9	6786.1	3099.7	2464.6	984.9	616.7
87.5°	181.8	147.3	184.1	276.1	501.7	766.3	6457.1	3481.7	2538.2	520.1	388.9
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°	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3	10065.3
2.5°	10069.9	10026.2	9991.7	9927.2	9855.9	9786.9	9724.7	9646.5	9623.5	9602.8	9635.0
5°	10102.1	10058.4	9931.8	9733.9	9515.3	9310.5	9105.7	8930.8	8822.7	8762.8	8797.4
7.5°	10150.5	10088.3	9826.0	9462.4	9068.9	8709.9	8339.4	8042.6	7824.0	7720.4	7750.3
10°	10194.2	10074.5	9646.5	9101.1	8525.8	7992.0	7407.5	6924.2	6565.2	6376.5	6422.6
12.5°	10212.6	10021.6	9395.7	8650.1	7860.8	7078.4	6217.8	5495.2	4979.7	4791.0	4751.9
15°	10231.0	9961.8	9119.5	8136.9	7057.7	5950.8	4745.0	3879.8	3451.8	3357.4	3336.7
17.5°	10235.6	9858.2	8806.6	7580.0	6116.5	4609.2	3244.6	2694.7	2697.0	2848.8	2867.3
20°	10187.3	9704.0	8426.9	6887.4	4988.9	3187.1	2227.5	2133.2	2480.7	2860.4	2906.4
22.5°	10076.8	9499.2	7996.6	6079.7	3698.0	2098.7	1723.6	1827.1	2275.9	2740.7	2793.6
25°	9936.4	9250.7	7488.0	5143.1	2448.4	1500.4	1445.1	1571.7	1875.5	2186.1	2216.0
27.5°	9745.4	8956.1	6917.3	4070.8	1590.1	1235.7	1272.5	1357.7	1482.0	1620.0	1633.8
30°	9499.2	8604.1	6307.5	2968.5	1201.2	1111.5	1164.4	1210.4	1263.3	1341.6	1348.5
32.5°	9216.2	8265.8	5681.6	2050.3	1065.4	1047.0	1088.5	1111.5	1152.9	1201.2	1205.8
35°	8979.2	7943.6	5032.7	1449.7	1007.9	998.7	1026.3	1035.5	1074.6	1127.6	1132.2
37.5°	8843.4	7681.3	4363.0	1169.0	968.8	955.0	971.1	971.1	1026.3	1104.6	1116.1
40°	8852.6	7536.3	3693.4	1056.2	936.6	918.2	920.5	920.5	991.8	1076.9	1083.9
42.5°	9103.4	7573.1	3099.7	1012.5	911.3	890.6	879.0	885.9	945.8	1001.0	1005.6
45°	9692.5	7833.2	2542.8	984.9	885.9	879.0	853.7	851.4	874.4	899.8	899.8
47.5°	10659.0	8346.3	2165.4	966.5	865.2	862.9	833.0	803.1	800.8	810.0	810.0
50°	12230.7	9230.0	1912.3	945.8	851.4	833.0	798.5	752.5	736.4	743.3	743.3
52.5°	14587.1	10806.3	1815.6	918.2	821.5	791.6	752.5	706.5	692.7	695.0	695.0
55°	17677.6	13227.1	1801.8	885.9	789.3	741.0	708.8	674.2	658.1	662.7	662.7
57.5°	21453.8	16575.3	2048.0	835.3	745.6	690.4	671.9	648.9	637.4	644.3	642.0
60°	26044.6	20956.7	3037.5	782.4	701.9	644.3	644.3	625.9	616.7	623.6	621.3
62.5°	31332.7	25989.4	4271.0	743.3	655.8	607.5	616.7	607.5	598.3	602.9	600.6
65°	36022.5	29268.6	3999.4	713.4	609.8	573.0	589.1	584.5	577.6	582.2	579.9
67.5°	36158.3	28053.5	2245.9	681.1	566.1	538.5	561.5	559.2	554.6	559.2	556.9
70°	32269.3	23688.2	1265.6	621.3	520.1	497.1	529.3	527.0	522.4	531.6	529.3
72.5°	25853.6	17189.7	925.1	547.7	474.0	453.3	490.1	487.8	487.8	501.7	494.8
75°	14877.1	8845.7	738.7	469.4	425.7	409.6	441.8	444.1	448.7	467.1	453.3
77.5°	4241.1	2756.8	602.9	398.1	365.9	359.0	391.2	395.8	398.1	418.8	400.4
80°	1576.3	1270.2	497.1	333.7	299.2	301.5	331.4	338.3	340.6	361.3	338.3
82.5°	1005.6	837.6	402.7	257.7	234.7	232.4	269.2	278.4	278.4	280.7	266.9
85°	586.8	501.7	303.8	186.4	165.7	158.8	200.2	216.3	209.4	204.8	195.6
87.5°	393.5	345.2	186.4	103.6	89.7	85.1	117.4	128.9	124.3	117.4	110.5
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)