

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: P192805

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL2-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36998.5 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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



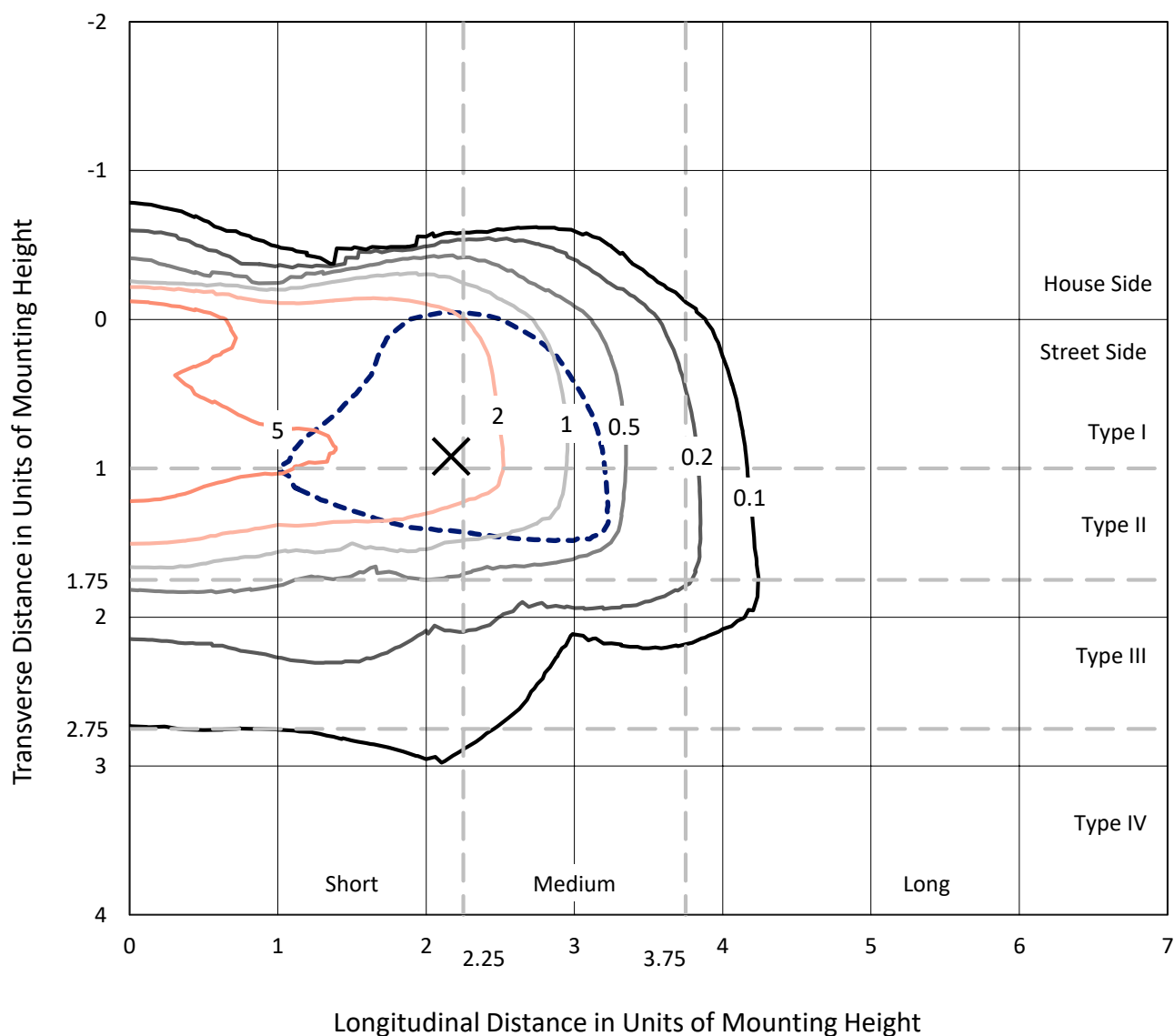
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

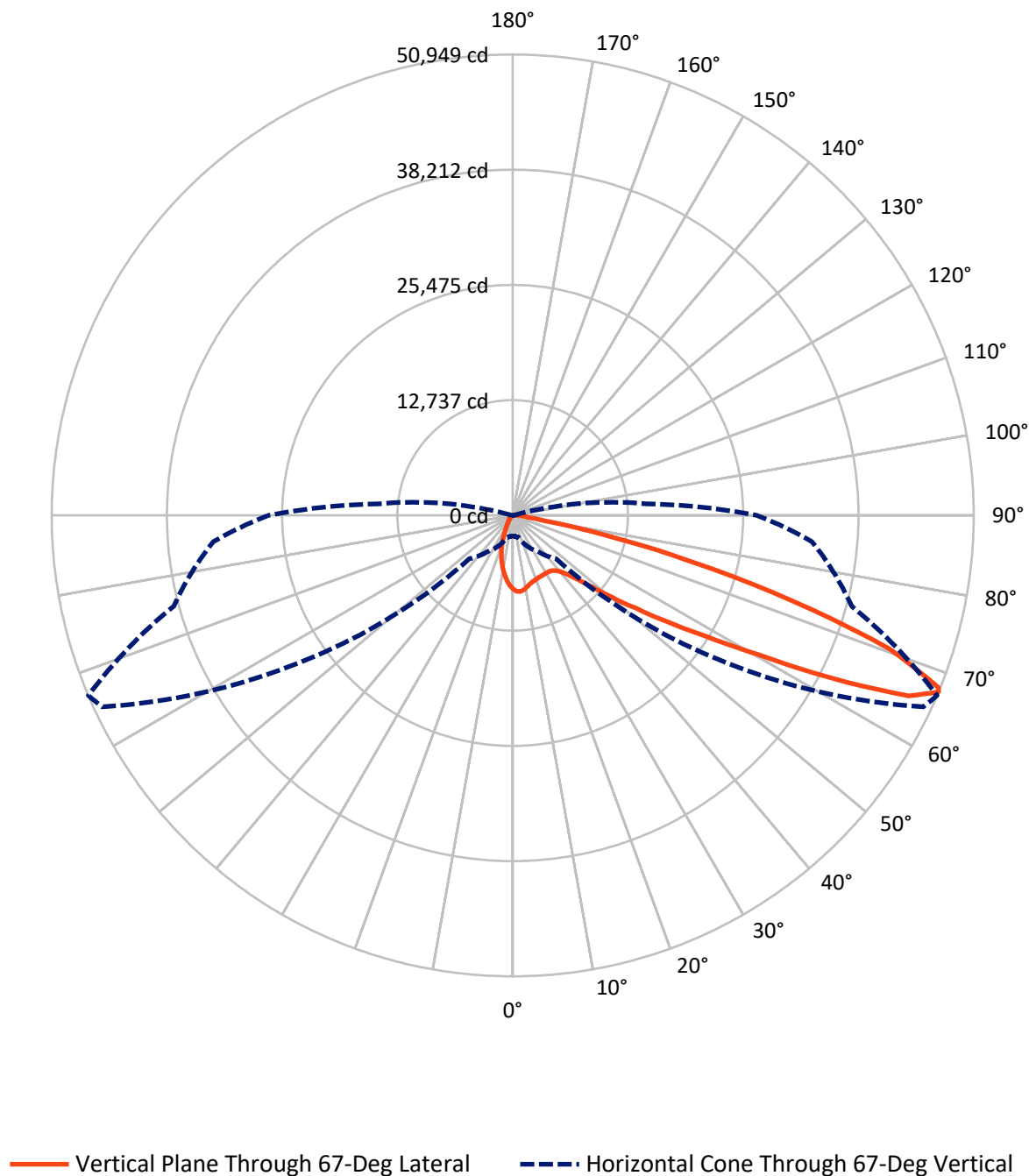


Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3841.6	0.0	3841.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	33156.9	0.0	33156.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	36998.5	0.0	36998.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.9	1.8
10°-20°	1413.1	3.8
20°-30°	2054.5	5.6
30°-40°	3205.1	8.7
40°-50°	5677.7	15.3
50°-60°	8984.4	24.3
60°-70°	10290.4	27.8
70°-80°	4268.4	11.5
80°-90°	440.9	1.2
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°	36998.5	100.0
0°-180°	36998.5	100.0

Coefficient of Utilization



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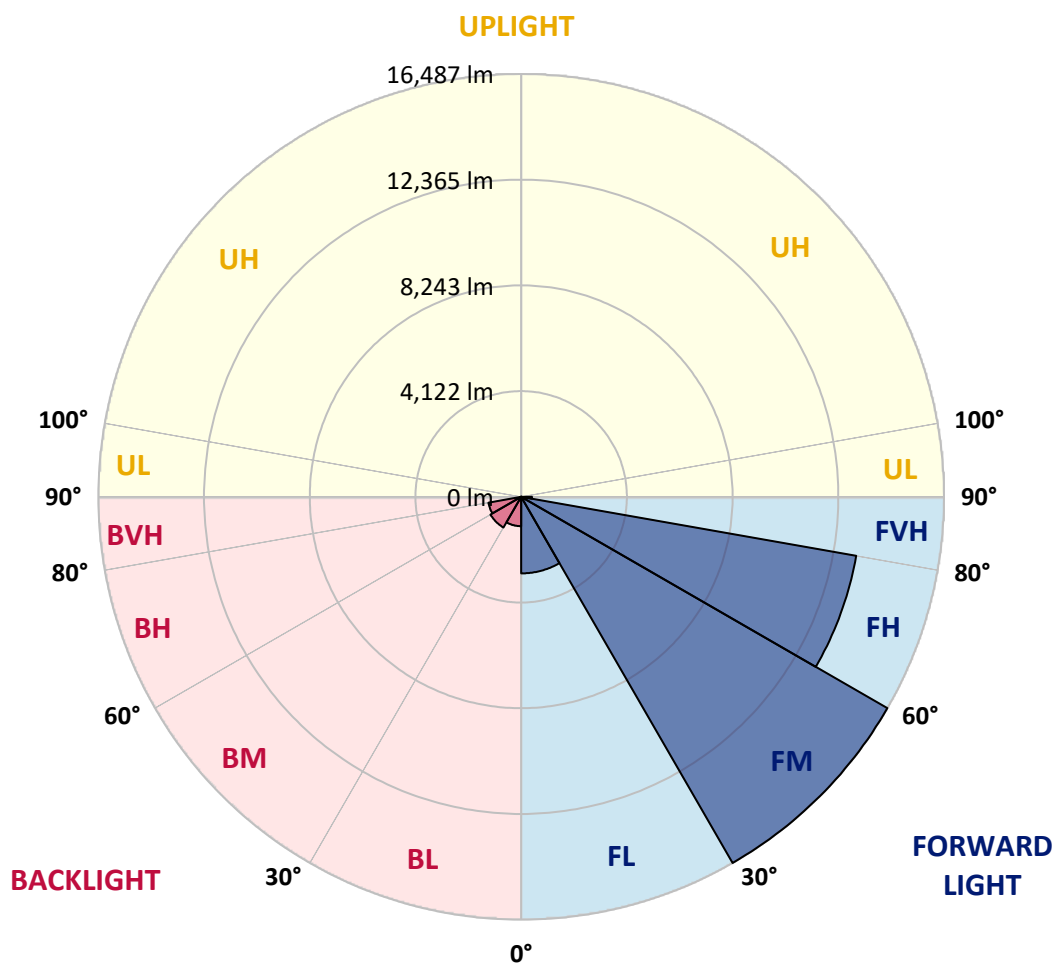
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2985.2	8.1			
FM	(30°-60°)	16486.6	44.6			
FH	(60°-80°)	13264.0	35.9			G5
FVH	(80°-90°)	421.0	1.1			G3/500
BL	(0°-30°)	1146.3	3.1	B3/2500		
BM	(30°-60°)	1380.6	3.7	B2/2500		
BH	(60°-80°)	1294.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	19.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5
2.5°	8435.8	8453.1	8450.8	8463.8	8494.1	8496.2	8466.0	8407.7	8394.7	8319.2	8187.6
5°	7779.7	7829.3	7859.6	7982.6	8120.7	8286.9	8412.0	8457.3	8450.8	8396.9	8198.4
7.5°	7030.9	7080.5	7115.1	7259.6	7443.1	7727.9	8053.8	8321.4	8345.1	8403.3	8189.7
10°	6532.4	6541.1	6588.5	6726.5	6918.7	7210.0	7598.4	8066.7	8137.9	8351.6	8168.1
12.5°	6122.4	6128.8	6191.4	6340.4	6545.2	6838.9	7246.7	7788.3	7898.4	8286.9	8163.9
15°	5831.0	5854.7	5910.8	6066.2	6284.1	6575.6	6994.2	7583.3	7715.1	8263.1	8202.6
17.5°	5733.9	5759.8	5777.1	5889.3	6087.8	6372.6	6802.2	7449.6	7598.4	8276.1	8278.2
20°	5835.3	5854.7	5815.9	5843.9	5966.9	6221.7	6640.2	7335.1	7512.1	8291.1	8375.4
22.5°	6213.0	6221.7	6115.9	5992.9	5971.2	6111.5	6513.0	7244.6	7434.4	8332.2	8489.7
25°	6860.4	6845.3	6672.7	6407.2	6156.9	6092.1	6437.4	7188.3	7395.5	8375.4	8608.4
27.5°	7641.6	7663.2	7425.8	7039.5	6562.5	6221.7	6426.6	7164.6	7378.3	8405.6	8712.0
30°	8591.2	8621.3	8349.5	7863.8	7179.8	6541.1	6525.9	7160.3	7367.6	8386.0	8720.6
32.5°	9560.0	9596.8	9383.1	8882.4	8004.2	7076.1	6750.4	7207.9	7389.1	8319.2	8671.1
35°	10574.3	10626.1	10483.8	10054.2	9122.0	7848.7	7145.2	7352.4	7490.5	8312.8	8621.3
37.5°	11975.0	12022.5	11754.7	11299.5	10475.1	8884.6	7779.7	7624.3	7730.1	8416.4	8634.3
40°	14066.0	14059.6	13369.1	12672.0	11962.0	10201.0	8671.1	8116.4	8170.3	8729.3	8793.9
42.5°	16344.9	16334.1	15313.4	14253.9	13612.8	11821.8	9842.8	8966.6	8930.0	9305.4	9208.4
45°	18101.6	18099.5	17266.5	16073.0	15600.5	13682.0	11357.7	10149.2	10093.2	10242.1	9972.3
47.5°	18850.4	18863.4	18444.7	17605.3	17803.8	16198.2	13267.6	11862.8	11778.5	11718.2	11308.2
50°	18267.7	18293.6	18328.1	18164.2	19420.2	19579.8	15829.2	14277.6	14236.6	13966.8	13326.0
52.5°	16364.5	16496.0	16901.8	17421.8	19981.3	22825.6	19845.3	17277.2	17057.1	16770.1	16064.4
55°	13157.5	13302.1	14072.6	15335.0	19146.0	24957.6	25473.5	21144.4	20777.5	19920.8	18902.2
57.5°	8707.6	8932.1	10050.0	11655.6	16720.5	25300.8	31088.6	26511.4	25233.9	22888.0	21740.1
60°	4797.3	5013.2	6225.9	7680.5	12076.3	23604.6	34865.1	33499.2	31241.8	26205.0	25186.5
62.5°	2954.4	3070.8	3966.4	5319.5	7242.4	18630.4	35646.4	42280.2	39666.8	30475.8	29349.2
65°	2352.3	2401.8	2839.9	4348.4	5192.2	11081.5	33123.7	48974.5	48102.6	35646.4	33076.2
67°	2283.2	2302.6	2509.8	3733.4	4894.4	6793.5	27750.2	50064.2	50949.0	38775.6	33192.8
67.5°	2298.3	2319.9	2516.2	3563.0	4885.7	6243.2	25898.6	49634.8	50752.7	39023.7	32676.9
70°	2216.4	2283.2	2880.9	3560.8	4646.2	5187.9	15509.8	43005.3	44168.5	36259.4	27726.4
72.5°	785.6	789.8	1245.2	2880.9	5051.9	5244.0	7788.3	31526.8	32387.8	27737.2	19989.8
75°	466.1	397.0	414.3	820.1	4827.5	5093.0	4493.1	20145.2	20466.8	15894.0	10123.3
77.5°	321.6	280.6	289.2	362.5	1838.7	5021.8	3569.4	10505.3	10162.2	5574.2	2155.9
80°	183.4	161.8	172.6	317.2	669.0	4685.1	3366.5	4259.9	3632.0	945.2	595.6
82.5°	97.1	82.1	99.3	261.1	466.1	2919.9	3373.1	2058.8	1631.5	319.4	405.7
85°	34.5	28.1	47.5	179.0	310.8	895.6	3127.0	1730.7	1359.5	155.3	308.5
87.5°	6.4	6.4	19.4	73.4	125.2	274.0	1849.4	1027.2	688.5	92.8	211.5
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°	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5	8159.5
2.5°	8133.6	8040.8	7915.8	7762.5	7581.2	7421.4	7302.8	7179.8	7153.9	7110.7	7104.2
5°	8079.7	7919.9	7609.3	7253.1	6873.4	6530.2	6251.9	6003.7	5893.6	5798.6	5787.9
7.5°	7999.9	7760.2	7231.6	6657.5	6064.1	5524.5	5067.1	4743.4	4445.5	4303.0	4281.6
10°	7907.0	7563.9	6806.5	6010.2	5190.1	4428.3	3748.4	3178.8	2833.5	2628.4	2602.5
12.5°	7820.7	7371.8	6372.6	5339.0	4249.2	3230.6	2356.6	1812.7	1450.2	1303.5	1286.2
15°	7779.7	7216.5	5966.9	4652.7	3265.1	2056.6	1288.3	997.0	878.3	843.8	841.7
17.5°	7775.4	7084.8	5569.9	3942.7	2287.6	1195.6	839.4	766.1	742.4	733.7	733.7
20°	7773.2	6959.7	5172.8	3206.9	1452.4	796.3	699.1	681.9	664.7	653.9	653.9
22.5°	7797.0	6847.5	4758.5	2455.8	915.0	645.2	615.0	597.7	576.3	561.0	559.0
25°	7820.7	6761.1	4335.5	1748.0	662.5	561.0	530.9	507.2	476.9	457.5	455.4
27.5°	7825.0	6653.3	3882.3	1169.6	554.6	489.9	451.0	414.3	379.7	360.4	358.3
30°	7760.2	6472.0	3379.5	789.8	489.9	425.1	373.3	334.5	302.1	287.1	287.1
32.5°	7633.0	6247.6	2827.0	595.6	436.0	364.7	308.5	271.9	250.3	243.8	241.7
35°	7518.5	6005.8	2259.5	505.0	390.6	308.5	252.5	228.8	215.8	213.6	211.5
37.5°	7451.7	5811.6	1726.4	457.5	347.5	259.0	213.6	196.3	189.9	185.6	187.7
40°	7503.5	5649.7	1275.4	418.7	304.3	215.8	181.3	172.6	166.2	164.0	164.0
42.5°	7730.1	5621.7	947.4	384.1	263.4	179.0	157.6	151.1	146.7	144.5	146.7
45°	8325.7	5794.3	735.9	351.7	222.3	151.1	133.9	131.6	129.5	129.5	129.5
47.5°	9221.3	6150.4	612.8	315.1	185.6	129.5	116.6	114.4	112.2	114.4	114.4
50°	10738.3	6802.2	548.2	278.4	153.2	110.1	99.3	99.3	99.3	99.3	101.4
52.5°	13045.3	8084.0	505.0	241.7	125.2	92.8	84.1	84.1	86.4	86.4	88.5
55°	15615.6	9784.5	466.1	205.0	105.8	77.7	69.1	71.2	73.4	75.5	75.5
57.5°	18403.7	11668.5	433.8	168.4	90.6	62.6	58.2	60.4	62.6	66.8	66.8
60°	21768.0	13707.8	386.3	131.6	75.5	49.6	45.4	49.6	56.2	60.4	62.6
62.5°	25462.7	15680.3	325.8	103.6	62.6	38.9	36.7	45.4	54.0	58.2	60.4
65°	27987.6	16299.7	250.3	84.1	47.5	28.1	30.3	41.0	51.8	58.2	58.2
67°	26964.6	14778.2	205.0	71.2	38.9	21.7	28.1	41.0	51.8	56.2	58.2
67.5°	26254.7	14182.6	196.3	69.1	36.7	21.7	28.1	41.0	51.8	58.2	58.2
70°	21362.4	10654.2	164.0	51.8	30.3	19.4	23.7	38.9	49.6	56.2	56.2
72.5°	14843.0	6569.1	146.7	36.7	25.9	17.3	21.7	36.7	47.5	54.0	56.2
75°	7056.7	2378.1	125.2	28.1	23.7	15.1	19.4	36.7	47.5	54.0	54.0
77.5°	1439.4	552.5	101.4	23.7	19.4	15.1	17.3	34.5	45.4	51.8	51.8
80°	472.6	213.6	75.5	21.7	19.4	15.1	17.3	32.3	45.4	49.6	51.8
82.5°	341.0	107.9	49.6	21.7	19.4	15.1	15.1	32.3	43.1	49.6	49.6
85°	261.1	75.5	32.3	21.7	19.4	15.1	15.1	30.3	41.0	47.5	47.5
87.5°	172.6	30.3	25.9	21.7	19.4	15.1	15.1	30.3	38.9	45.4	47.5
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)