

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: P534422

Luminaire Tested: **GALN-SA9D-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47146 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 552
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

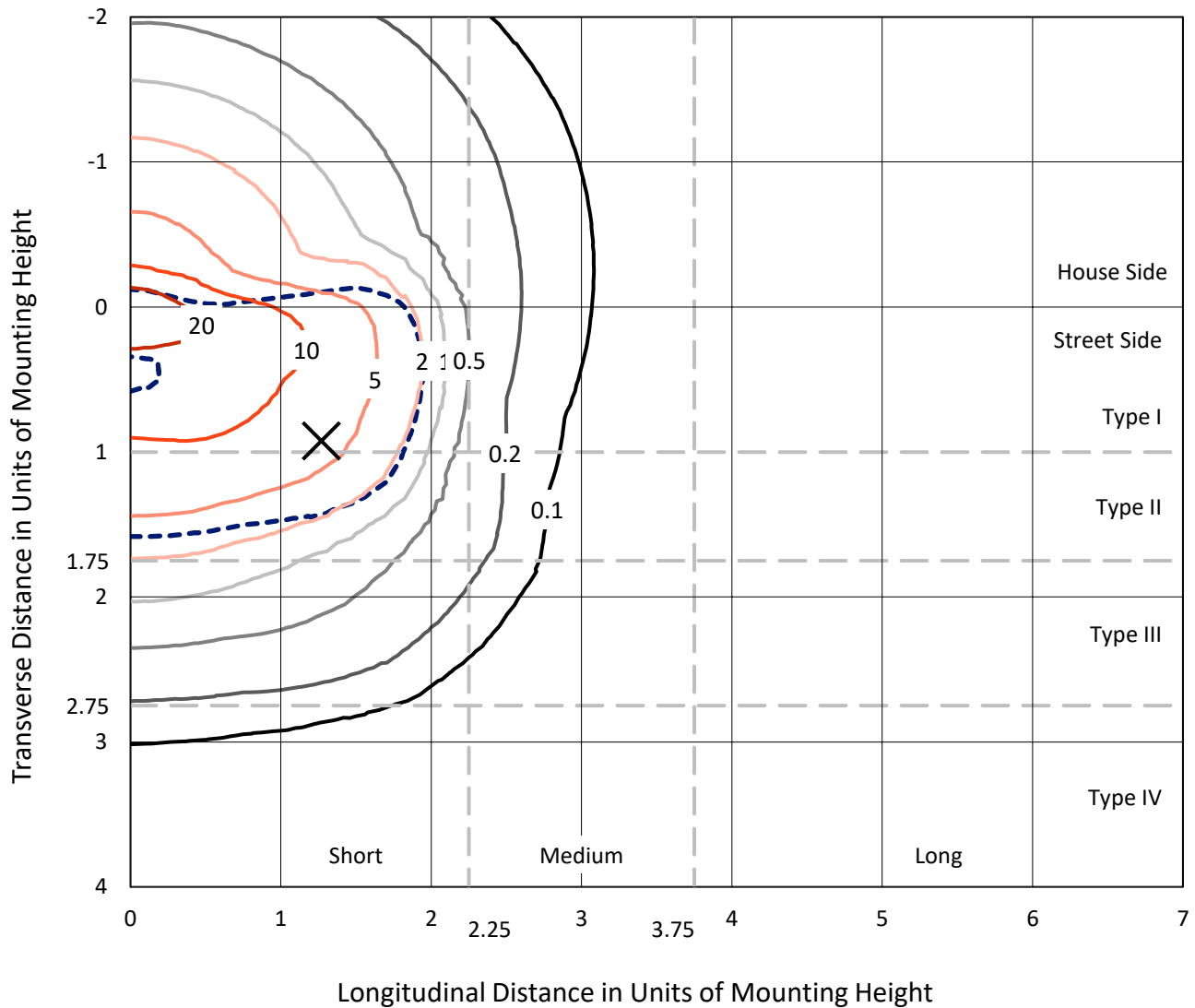


REPORT NUMBER: P534422

CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

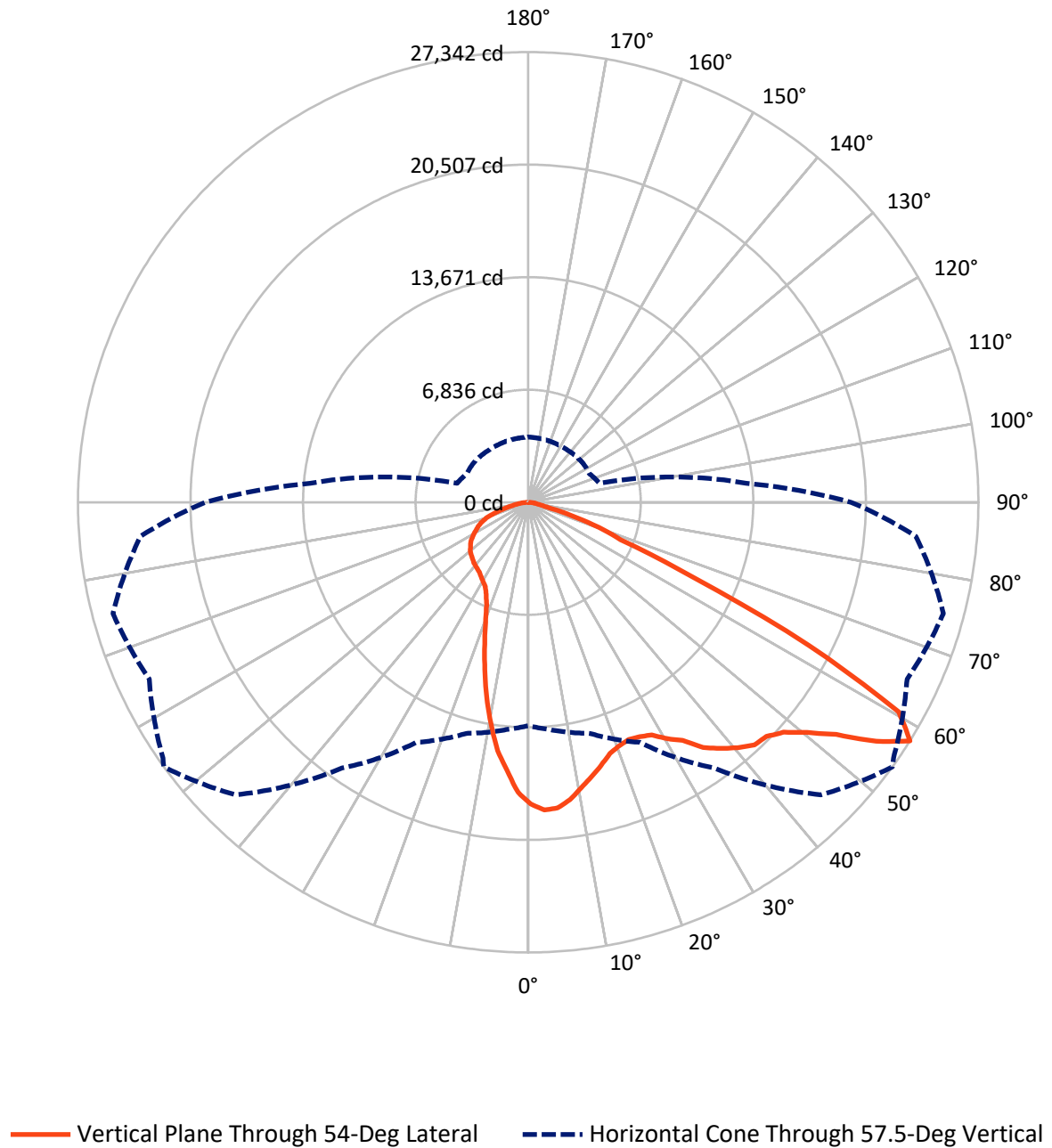


Based on 25 foot mounting height. Maximum calculated value = 29.3 fc
 Type II - Short - N/A

REPORT NUMBER: P534422

CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P534422

CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13043.2	0.0	13043.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	34102.8	0.0	34102.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	47146.0	0.0	47146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1580.4	3.4
10°-20°	3659.1	7.8
20°-30°	5141.1	10.9
30°-40°	7187.3	15.2
40°-50°	9730.3	20.6
50°-60°	11851.9	25.1
60°-70°	6173.0	13.1
70°-80°	1581.7	3.4
80°-90°	241.3	0.5
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°	47146.0	100.0
0°-180°	47146.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534422

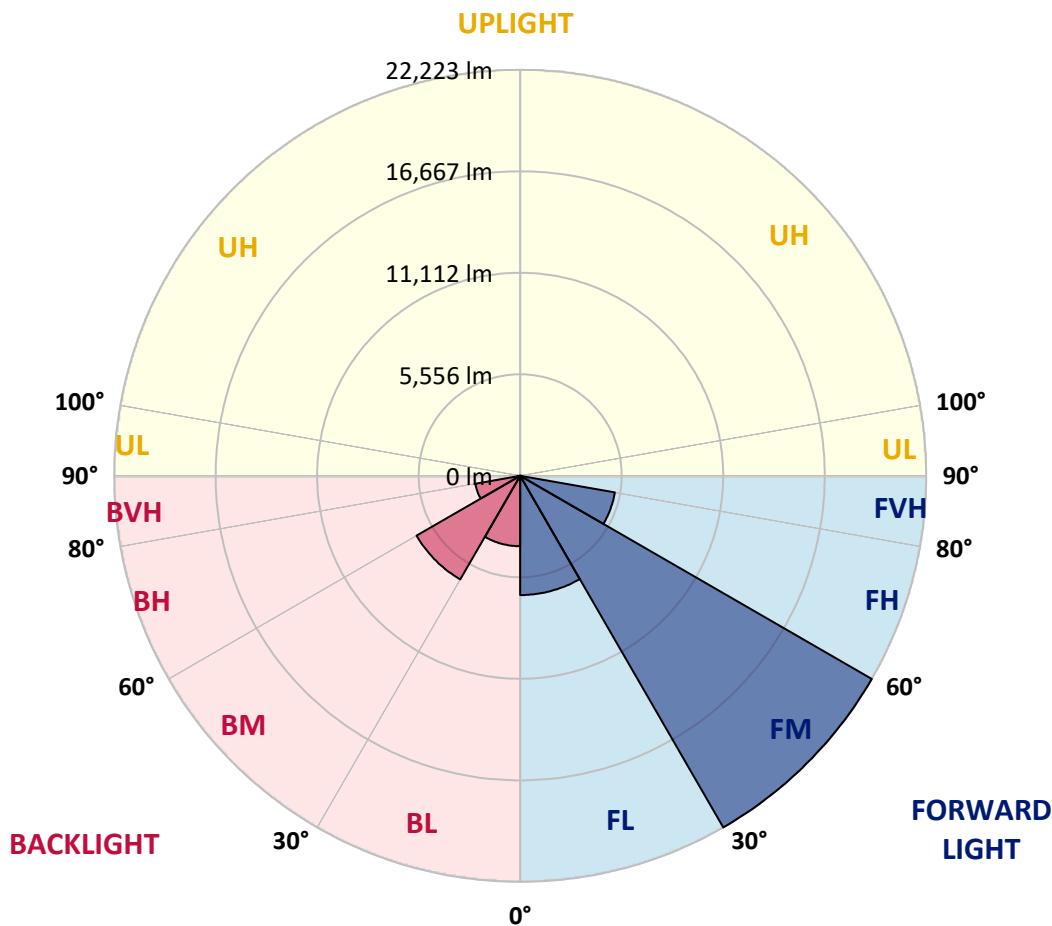
CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6525.7	13.8			
FM	(30°-60°)	22223.2	47.1			
FH	(60°-80°)	5262.8	11.2			G3/7500
FVH	(80°-90°)	91.2	0.2			G1/100
BL	(0°-30°)	3854.9	8.2	B4/5000		
BM	(30°-60°)	6546.3	13.9	B4/8500		
BH	(60°-80°)	2491.9	5.3	B3/2500		G3/2500
BVH	(80°-90°)	150.1	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-G3

Type II Short



REPORT NUMBER: P534422

CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1
2.5°	18846.3	18773.5	18785.7	18882.6	18761.4	18712.9	18712.9	18476.6	18494.8	18331.2	18288.8
5°	18409.9	18240.3	18355.4	18500.8	18525.1	18573.6	18652.3	18591.7	18422.1	18246.3	17961.5
7.5°	17270.7	17422.2	17464.6	17567.6	17785.8	17985.8	18234.2	18064.5	18058.5	17882.7	17713.1
10°	16270.8	16179.9	16410.2	16561.7	16925.3	17258.6	17640.3	17622.2	17713.1	17513.1	17222.2
12.5°	15277.0	15204.3	15313.3	15658.8	16167.8	16652.6	17107.1	16937.4	17422.2	17385.8	16761.7
15°	14222.6	14277.1	14434.7	14755.8	15422.4	16004.2	16579.9	16585.9	17016.2	17161.6	16325.3
17.5°	13483.3	13422.7	13622.6	14101.4	14695.2	15392.1	16046.6	16179.9	16840.4	16925.3	16192.0
20°	12931.8	13016.6	13277.2	13519.6	14204.4	15046.7	15786.0	15834.5	16804.1	17034.4	15979.9
22.5°	12798.5	12750.0	12834.8	13228.7	13792.3	14707.4	15646.6	15828.4	16798.0	16998.0	15580.0
25°	12659.1	12816.7	12810.6	13204.5	13616.6	14434.7	15761.8	15961.8	17119.2	17185.9	15634.5
27.5°	12974.2	12956.0	13125.7	13156.0	13665.1	14507.4	16004.2	16155.7	17652.5	17597.9	15676.9
30°	13289.3	13198.4	13301.5	13659.0	13895.3	14925.5	16670.8	16658.6	18343.3	18306.9	15810.3
32.5°	13677.2	13634.8	13701.4	14016.5	14416.5	15483.0	17234.3	17591.9	19046.2	19276.5	16270.8
35°	13749.9	13925.6	14083.2	14507.4	15077.0	16385.9	18294.8	18591.7	19858.3	20579.4	17149.5
37.5°	14210.4	14277.1	14646.8	15398.2	15919.3	17591.9	18967.5	19155.3	20597.6	21415.7	18076.7
40°	14701.3	14780.1	15337.6	16125.4	16840.4	18379.6	19597.7	19658.3	20833.9	22058.0	18682.6
42.5°	15367.9	15440.6	15992.1	16979.8	17937.3	19052.3	20155.2	20221.9	20815.7	22797.3	19646.2
45°	16058.7	16234.4	16882.9	18003.9	18864.4	19840.1	20282.5	20555.2	20985.4	23457.8	20427.9
47.5°	17028.3	17191.9	17725.2	18822.0	19828.0	20530.9	20870.3	21136.9	21391.4	24033.5	20930.9
50°	18058.5	18088.8	18737.2	19731.0	20470.3	21312.6	21967.1	22058.0	21924.7	24700.1	21785.3
52.5°	18816.0	18912.9	19415.9	20385.5	21488.4	22524.6	23421.5	23518.4	23257.9	24948.6	22076.2
55°	17561.6	17507.0	18325.1	19615.9	22173.1	24330.5	25633.3	25706.1	24227.4	25718.2	23027.6
57.5°	13574.2	13834.7	14531.6	16089.0	19700.7	25130.4	27342.2	27081.7	25390.9	26106.0	23633.6
60°	9865.5	9804.9	10271.5	11313.8	14846.7	21658.1	25851.5	26118.1	24439.5	23530.6	19488.6
62.5°	8035.4	7950.6	7986.9	8023.3	9580.7	14374.1	19137.1	19131.1	18822.0	16913.2	13143.9
65°	6423.5	6623.5	6641.6	6914.3	7114.3	8586.9	11089.6	11683.5	10174.6	8344.5	6053.8
67.5°	4841.9	4769.1	5011.5	5981.1	6356.8	6199.3	6053.8	6120.5	4351.0	3139.0	2957.2
70°	2854.2	2823.9	3114.8	4169.2	5235.7	4926.7	4563.1	4569.2	2987.5	2193.7	2442.1
72.5°	1563.5	1557.4	1618.0	2114.9	2975.4	3090.5	2739.1	2823.9	1781.6	1775.5	1908.9
75°	872.6	854.4	836.3	933.2	1072.6	1133.2	1157.4	1169.6	1224.1	1369.5	1424.1
77.5°	321.2	309.1	309.1	357.5	454.5	569.6	721.1	733.2	866.6	993.8	1048.4
80°	109.1	121.2	163.6	224.2	303.0	406.0	490.9	503.0	612.0	696.9	715.1
82.5°	66.7	72.7	109.1	157.6	218.2	284.8	363.6	369.7	454.5	509.0	533.3
85°	30.3	36.4	60.6	97.0	139.4	187.9	193.9	193.9	187.9	193.9	181.8
87.5°	0.0	0.0	12.1	12.1	12.1	18.2	24.2	18.2	30.3	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P534422

CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1	18325.1
2.5°	18161.5	18094.8	17888.8	17707.0	17652.5	17410.1	17052.5	17095.0	16834.4	16955.6	16828.3
5°	17913.0	17688.8	17161.6	16937.4	16349.6	16083.0	15901.2	15446.7	15234.6	15192.1	15010.3
7.5°	17276.7	17137.4	16476.8	15870.9	15246.7	14713.4	14028.6	13562.0	13228.7	13137.8	12871.2
10°	16773.8	16464.7	15549.7	14628.6	13737.8	12810.6	11919.8	11222.9	10883.6	10489.7	10356.4
12.5°	16276.9	15810.3	14574.0	13392.4	12241.0	11071.4	9992.8	9144.4	8405.1	8229.3	8168.7
15°	15967.8	15155.8	13701.4	12277.3	10641.2	9114.1	8035.4	7477.9	7023.4	6835.6	6968.9
17.5°	15561.8	14616.5	12865.1	10968.4	9168.6	7762.7	6859.8	6514.4	6350.8	6368.9	6314.4
20°	15052.8	14107.4	11768.3	9780.7	7853.6	6732.5	6217.4	6090.2	6114.4	6156.8	6138.7
22.5°	14689.2	13489.3	10974.5	8568.7	6787.1	6162.9	5950.8	5859.9	5938.7	5975.1	5944.8
25°	14410.4	12962.1	10010.9	7496.1	6169.0	5841.7	5744.8	5738.7	5859.9	5908.4	5878.1
27.5°	14155.9	12471.3	9053.5	6678.0	5756.9	5593.3	5563.0	5635.7	5714.5	5763.0	5805.4
30°	14004.4	12095.5	8156.6	5993.2	5550.9	5472.1	5417.5	5484.2	5526.6	5575.1	5550.9
32.5°	14149.8	11828.9	7290.0	5605.4	5381.2	5302.4	5375.1	5332.7	5405.4	5447.8	5381.2
35°	14604.3	11592.6	6671.9	5399.4	5187.3	5217.6	5229.7	5211.5	5241.8	5205.4	5284.2
37.5°	15052.8	11507.7	6102.3	5223.6	5096.4	5096.4	5084.2	5047.9	5108.5	5096.4	5132.7
40°	15622.4	11562.3	5617.5	5035.8	5011.5	4999.4	4950.9	4944.9	4920.6	4926.7	4938.8
42.5°	16119.3	11683.5	5338.8	4914.6	4932.8	4957.0	4866.1	4793.4	4823.7	4763.1	4763.1
45°	16646.5	11792.5	5090.3	4829.7	4811.6	4805.5	4732.8	4690.4	4666.1	4672.2	4726.7
47.5°	17476.7	11950.1	4902.5	4714.6	4726.7	4635.8	4617.6	4563.1	4587.3	4623.7	4629.8
50°	18064.5	12283.4	4757.0	4581.3	4623.7	4563.1	4454.0	4429.8	4429.8	4490.4	4478.3
52.5°	18476.6	12750.0	4617.6	4435.8	4454.0	4405.5	4369.2	4314.6	4278.3	4363.1	4405.5
55°	19737.1	13525.7	4581.3	4314.6	4308.6	4260.1	4193.4	4138.9	4120.7	4132.8	4217.7
57.5°	19615.9	13283.3	4466.1	4102.5	4090.4	4023.8	3957.1	3938.9	3932.9	3945.0	3969.2
60°	15925.4	9811.0	3987.4	3860.2	3842.0	3829.9	3763.2	3690.5	3654.1	3690.5	3660.2
62.5°	10538.2	6568.9	3514.7	3569.3	3581.4	3551.1	3442.0	3369.3	3381.4	3423.8	3357.2
65°	5175.1	3860.2	3187.5	3332.9	3345.1	3260.2	3157.2	3072.4	3029.9	3066.3	3036.0
67.5°	2957.2	2951.2	2920.9	3072.4	3066.3	2981.5	2817.8	2745.1	2672.4	2684.5	2666.4
70°	2508.8	2557.3	2617.9	2708.8	2702.7	2605.8	2411.8	2357.3	2254.3	2242.2	2211.9
72.5°	1975.5	2060.4	2193.7	2260.3	2205.8	2084.6	1957.3	1866.4	1775.5	1721.0	1739.2
75°	1466.5	1587.7	1660.4	1702.8	1618.0	1551.3	1448.3	1339.2	1230.2	1181.7	1163.5
77.5°	1066.5	1102.9	1169.6	1199.9	1145.3	1078.7	1018.1	909.0	806.0	739.3	721.1
80°	745.4	769.6	818.1	818.1	818.1	787.8	709.0	599.9	533.3	472.7	460.6
82.5°	521.2	545.4	593.9	569.6	563.6	527.2	478.7	393.9	321.2	278.8	266.6
85°	181.8	200.0	242.4	290.9	309.1	303.0	272.7	218.2	169.7	139.4	127.3
87.5°	42.4	42.4	48.5	42.4	42.4	48.5	42.4	42.4	42.4	30.3	24.2
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)