

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: P941277

Luminaire Tested: **GALN-SB4D-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37854 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

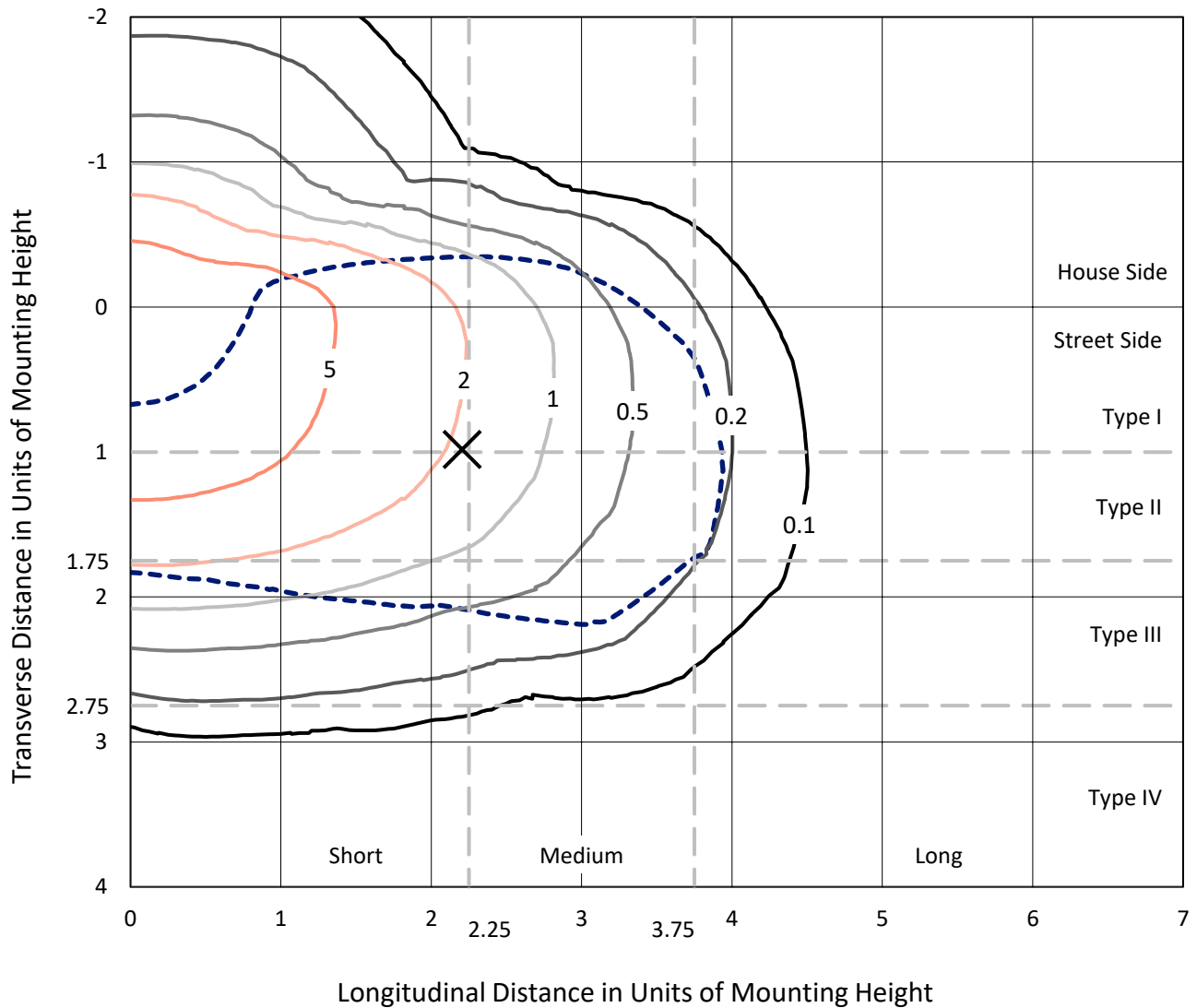
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

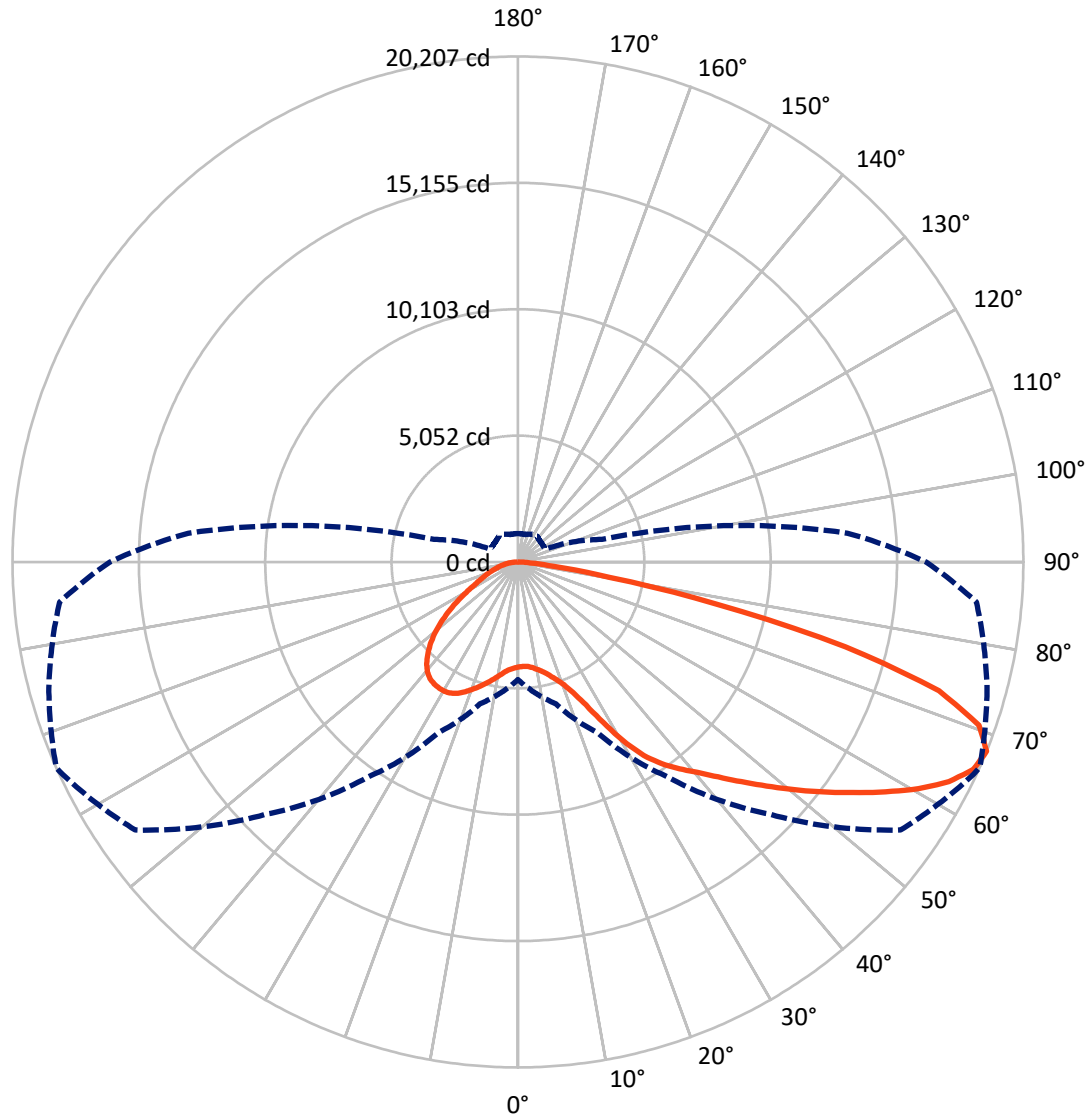
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SB4D-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9412.3	0.0	9412.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	28441.7	0.0	28441.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	37854.0	0.0	37854.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.3	1.1
10°-20°	1375.3	3.6
20°-30°	2650.8	7.0
30°-40°	4647.8	12.3
40°-50°	6909.8	18.3
50°-60°	8758.8	23.1
60°-70°	8570.3	22.6
70°-80°	4088.1	10.8
80°-90°	436.9	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°	37854.0	100.0
0°-180°	37854.0	100.0



REPORT NUMBER: P941277

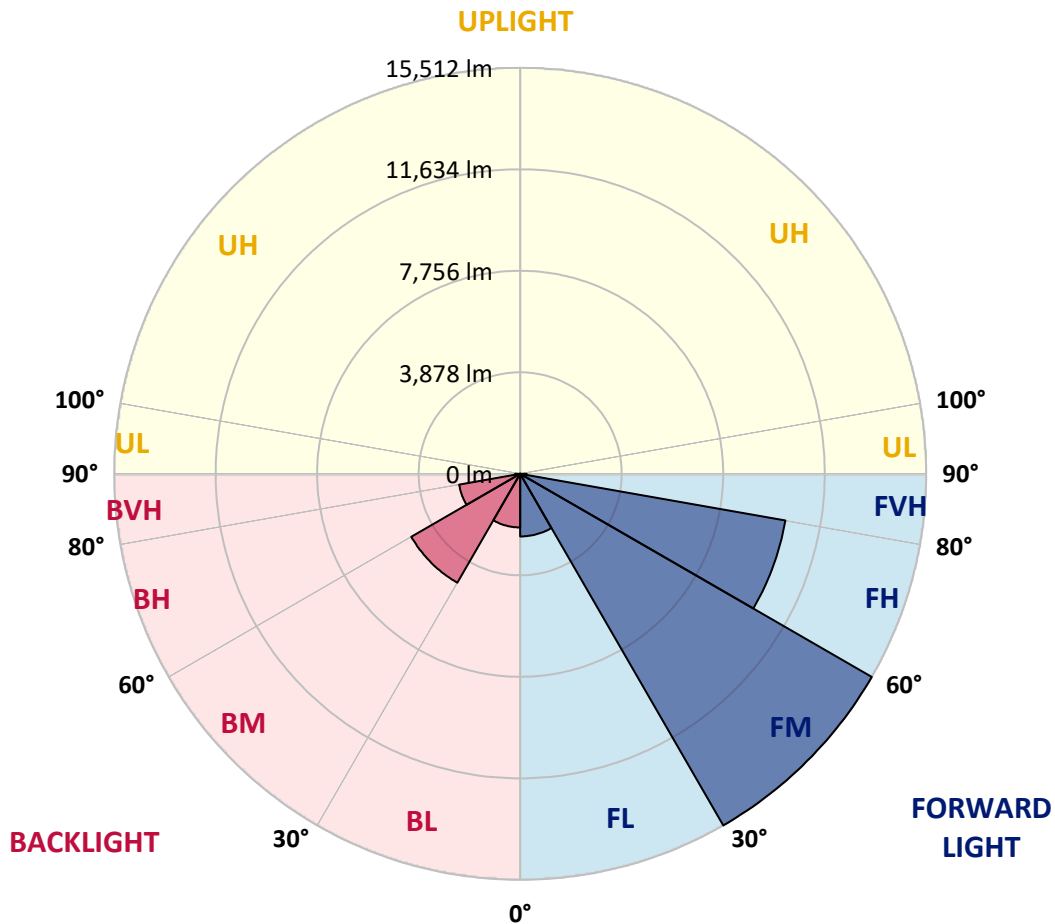
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2392.0	6.3			
FM (30°-60°)	15512.3	41.0			
FH (60°-80°)	10289.8	27.2			G4/12000
FVH (80°-90°)	247.7	0.7			G3/500
BL (0°-30°)	2050.3	5.4	B3/2500		
BM (30°-60°)	4804.1	12.7	B3/5000		
BH (60°-80°)	2368.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	189.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



REPORT NUMBER: P941277

CATALOG NUMBER: GALN-SB4D-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5
2.5°	4154.8	4178.6	4172.7	4162.7	4160.7	4164.7	4170.7	4176.6	4174.6	4184.6	4200.5
5°	4142.8	4166.7	4164.7	4164.7	4172.7	4188.6	4198.5	4208.5	4198.5	4210.4	4232.3
7.5°	4150.8	4168.7	4176.6	4184.6	4204.5	4234.3	4258.2	4280.1	4268.1	4282.0	4309.9
10°	4252.2	4266.1	4274.1	4274.1	4288.0	4321.8	4345.7	4385.5	4375.5	4397.4	4433.2
12.5°	4437.2	4451.1	4451.1	4443.1	4453.1	4475.0	4482.9	4526.7	4508.8	4544.6	4580.4
15°	4663.9	4691.7	4669.9	4655.9	4659.9	4681.8	4679.8	4713.6	4695.7	4725.6	4757.4
17.5°	4914.5	4950.3	4914.5	4912.5	4904.6	4928.4	4930.4	4960.2	4928.4	4950.3	4972.2
20°	5210.8	5260.6	5230.7	5240.7	5222.8	5232.7	5242.7	5286.4	5236.7	5252.6	5246.6
22.5°	5628.5	5688.2	5656.4	5694.1	5682.2	5674.3	5672.3	5749.8	5672.3	5678.2	5620.6
25°	6237.1	6308.7	6253.0	6304.7	6304.7	6330.6	6360.4	6459.9	6330.6	6292.8	6143.6
27.5°	7136.1	7207.7	7098.3	7130.1	7120.2	7183.8	7152.0	7398.6	7259.4	7197.7	6897.4
30°	8218.0	8345.3	8138.5	8130.5	8120.6	8222.0	8267.7	8430.8	8289.6	8228.0	7866.0
32.5°	9387.5	9520.7	9274.1	9202.5	9164.7	9226.4	9188.6	9319.9	9222.4	9126.9	8679.4
35°	10624.6	10755.8	10521.1	10381.9	10230.8	10101.5	9966.2	10000.0	9908.6	9763.4	9300.0
37.5°	11794.0	12034.7	11786.1	11636.9	11358.4	11105.9	10728.0	10570.9	10485.3	10352.1	9884.7
40°	12985.3	13122.6	12933.6	12806.3	12504.0	12108.3	11503.6	11171.5	11056.1	10926.9	10531.1
42.5°	13862.4	13993.7	13892.3	13804.8	13568.1	13108.7	12327.0	11911.4	11744.3	11599.1	11263.0
45°	14558.5	14656.0	14592.4	14624.2	14522.7	14077.2	13180.3	12704.9	12531.9	12354.9	12090.4
47.5°	14839.0	14942.4	15043.8	15232.8	15405.8	15077.6	14097.1	13564.1	13381.1	13200.1	12939.6
50°	14807.2	14912.6	15206.9	15608.7	16145.7	16036.3	15063.7	14479.0	14309.9	14103.1	13862.4
52.5°	14552.6	14671.9	15049.8	15718.1	16573.3	16754.3	16048.2	15423.7	15264.6	15018.0	14777.3
55°	13884.3	13955.9	14522.7	15469.4	16674.7	17255.5	17012.8	16430.1	16271.0	15926.9	15664.4
57.5°	12645.2	12748.7	13574.1	14799.2	16420.1	17595.6	17860.1	17488.2	17335.0	16839.8	16565.3
60°	11028.3	11193.4	12138.1	13673.5	15771.8	17593.6	18629.8	18528.3	18401.0	17738.7	17452.4
62.5°	9198.5	9389.5	10298.4	12082.4	14638.1	17094.4	19111.1	19399.5	19333.8	18568.1	18202.2
65°	7064.5	7195.7	8100.7	10023.9	12874.0	16022.4	19166.8	19994.1	20006.1	19198.6	18594.0
67.5°	4703.7	5081.6	5867.2	7521.9	10511.2	14270.2	18677.5	20091.6	20206.9	19415.4	18397.1
70°	2295.2	2792.4	3562.1	4888.6	7521.9	11583.2	17398.7	19292.1	19548.6	18782.9	17223.6
72.5°	952.7	1113.8	1533.4	2412.5	4317.8	7816.3	14829.0	17124.2	17599.5	16642.9	14481.0
75°	642.4	696.1	877.1	1237.1	1967.0	3854.4	10694.2	12768.6	13534.3	12569.7	10274.5
77.5°	495.2	529.0	638.4	865.2	1169.5	1457.8	5724.0	7694.9	8090.7	7490.1	5346.1
80°	389.8	415.7	477.3	630.5	829.4	779.6	1951.1	3486.5	3715.2	3116.6	1718.4
82.5°	338.1	348.1	342.1	427.6	550.9	455.5	640.4	1286.8	1420.1	1030.2	560.9
85°	244.6	272.5	284.4	264.5	292.4	230.7	262.5	455.5	501.2	447.5	316.2
87.5°	99.4	147.2	181.0	171.0	107.4	65.6	81.5	133.3	153.1	167.1	103.4
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°	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5	4198.5
2.5°	4202.5	4216.4	4226.4	4238.3	4246.2	4258.2	4282.0	4296.0	4298.0	4307.9	4305.9
5°	4240.3	4260.2	4282.0	4313.9	4349.7	4379.5	4425.2	4457.1	4469.0	4478.9	4477.0
7.5°	4321.8	4349.7	4389.4	4445.1	4496.8	4536.6	4592.3	4630.1	4667.9	4681.8	4683.8
10°	4443.1	4482.9	4540.6	4616.2	4671.9	4723.6	4781.2	4813.1	4850.9	4866.8	4874.7
12.5°	4594.3	4636.1	4711.6	4817.0	4868.8	4904.6	4924.4	4916.5	4924.4	4938.4	4942.3
15°	4767.3	4813.1	4898.6	5012.0	5047.8	5015.9	4972.2	4932.4	4926.4	4930.4	4944.3
17.5°	4972.2	5006.0	5105.4	5200.9	5175.0	5043.8	4948.3	4884.7	4852.8	4842.9	4856.8
20°	5258.6	5258.6	5340.1	5399.8	5226.8	5004.0	4854.8	4751.4	4685.8	4657.9	4652.0
22.5°	5606.6	5574.8	5626.5	5584.8	5216.8	4892.6	4685.8	4506.8	4407.3	4367.6	4361.6
25°	6048.2	6010.4	5996.4	5737.9	5145.2	4715.6	4379.5	4162.7	4075.2	4053.3	4057.3
27.5°	6714.4	6619.0	6438.0	5821.4	5013.9	4437.2	4021.5	3820.6	3770.9	3772.9	3778.9
30°	7601.5	7410.5	6967.0	5835.4	4799.1	4043.4	3655.5	3512.3	3488.5	3498.4	3532.2
32.5°	8422.9	8241.9	7508.0	5771.7	4469.0	3657.5	3327.4	3231.9	3196.1	3208.1	3224.0
35°	9067.3	9017.5	8009.2	5682.2	4063.3	3295.6	3033.0	2951.5	2881.9	2866.0	2877.9
37.5°	9675.9	9656.0	8385.1	5556.9	3661.5	3039.0	2796.4	2689.0	2587.5	2531.8	2533.8
40°	10344.1	10324.2	8631.7	5364.0	3305.5	2816.2	2583.5	2442.3	2317.0	2215.6	2225.5
42.5°	11095.9	10978.6	8749.0	5087.5	3003.2	2627.3	2410.5	2219.6	2054.5	1961.0	1967.0
45°	11917.3	11652.8	8747.1	4735.5	2748.6	2454.3	2225.5	1955.1	1801.9	1714.4	1710.4
47.5°	12788.4	12297.2	8639.7	4345.7	2502.0	2263.3	1939.2	1732.3	1630.9	1577.2	1565.2
50°	13687.4	12899.8	8456.7	3898.2	2249.4	2046.5	1760.2	1618.9	1541.4	1491.7	1473.8
52.5°	14532.7	13446.8	8235.9	3391.0	1992.8	1835.7	1680.6	1571.2	1489.7	1434.0	1410.1
55°	15318.3	13918.1	7923.7	2871.9	1784.0	1694.5	1642.8	1551.3	1457.8	1392.2	1366.4
57.5°	16016.4	14224.4	7384.7	2384.7	1634.9	1597.1	1603.0	1517.5	1410.1	1354.4	1318.6
60°	16597.1	14449.2	6587.1	1933.2	1513.5	1501.6	1541.4	1453.9	1328.6	1264.9	1237.1
62.5°	16945.2	14445.2	5608.6	1583.1	1410.1	1414.1	1459.8	1374.3	1247.0	1187.4	1169.5
65°	16915.4	14091.2	4534.6	1354.4	1310.7	1314.6	1374.3	1286.8	1179.4	1143.6	1141.6
67.5°	16316.7	13228.0	3478.5	1205.3	1201.3	1219.2	1288.8	1227.1	1137.6	1133.7	1139.6
70°	14695.8	11436.0	2506.0	1085.9	1087.9	1113.8	1205.3	1189.3	1115.8	1123.7	1121.7
72.5°	11784.1	8719.2	1682.6	960.6	962.6	1004.4	1125.7	1159.5	1093.9	1199.3	1215.2
75°	7848.1	5437.6	1081.9	827.4	829.4	883.1	1056.1	1101.8	1034.2	1195.3	1205.3
77.5°	3770.9	2444.3	783.6	696.1	696.1	745.8	912.9	986.5	881.1	928.8	851.2
80°	1302.7	918.9	616.6	560.9	548.9	582.7	769.7	855.2	759.7	700.1	656.3
82.5°	513.1	477.3	495.2	435.6	395.8	417.7	598.7	706.0	558.9	505.2	503.2
85°	294.4	310.3	350.0	288.4	228.7	256.6	439.5	507.2	421.6	371.9	379.9
87.5°	79.6	109.4	161.1	149.2	103.4	109.4	208.8	280.4	242.6	187.0	192.9
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)