

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: P455649

Luminaire Tested: **GALN-SA6D-760-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 45790 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

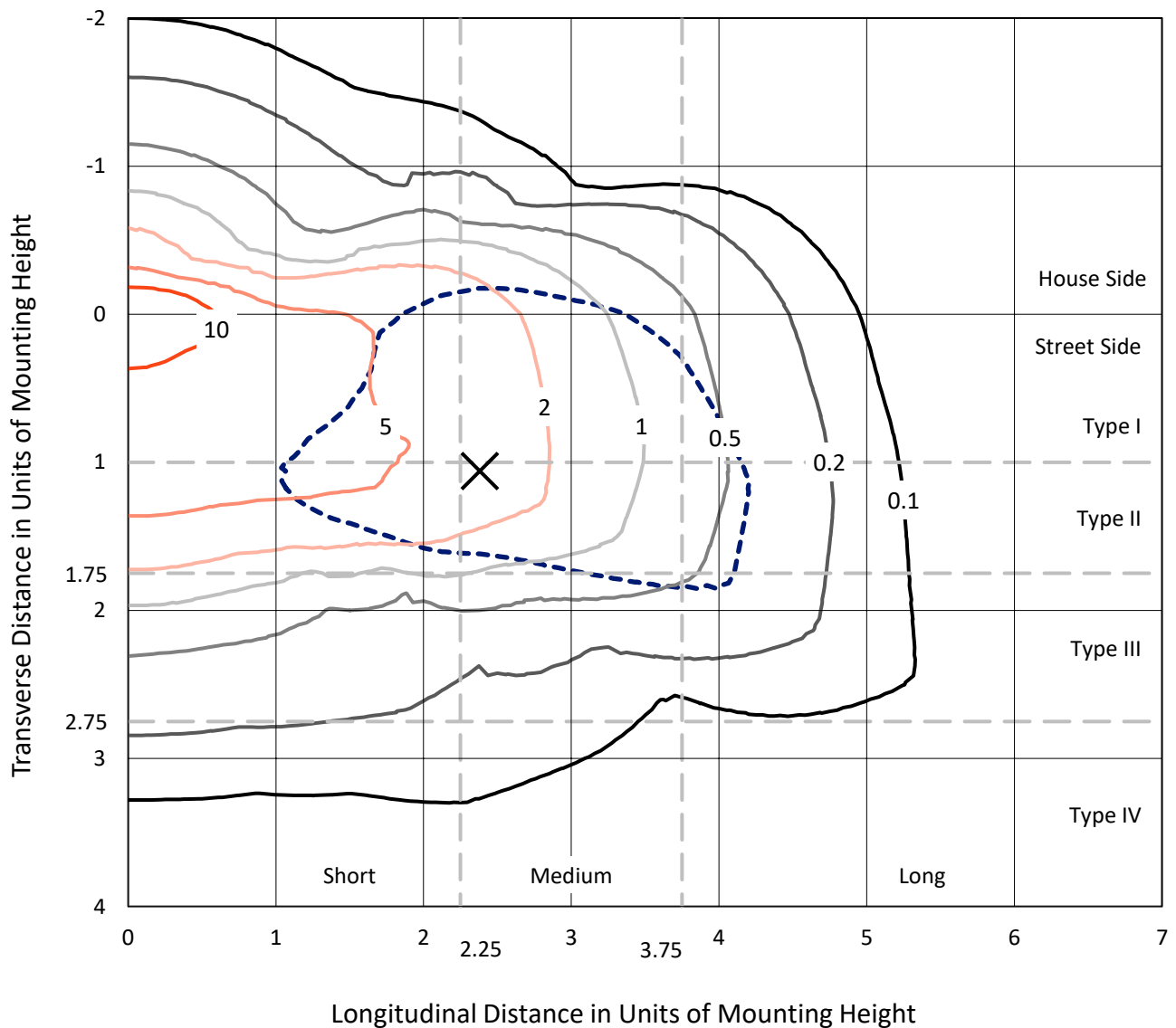
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

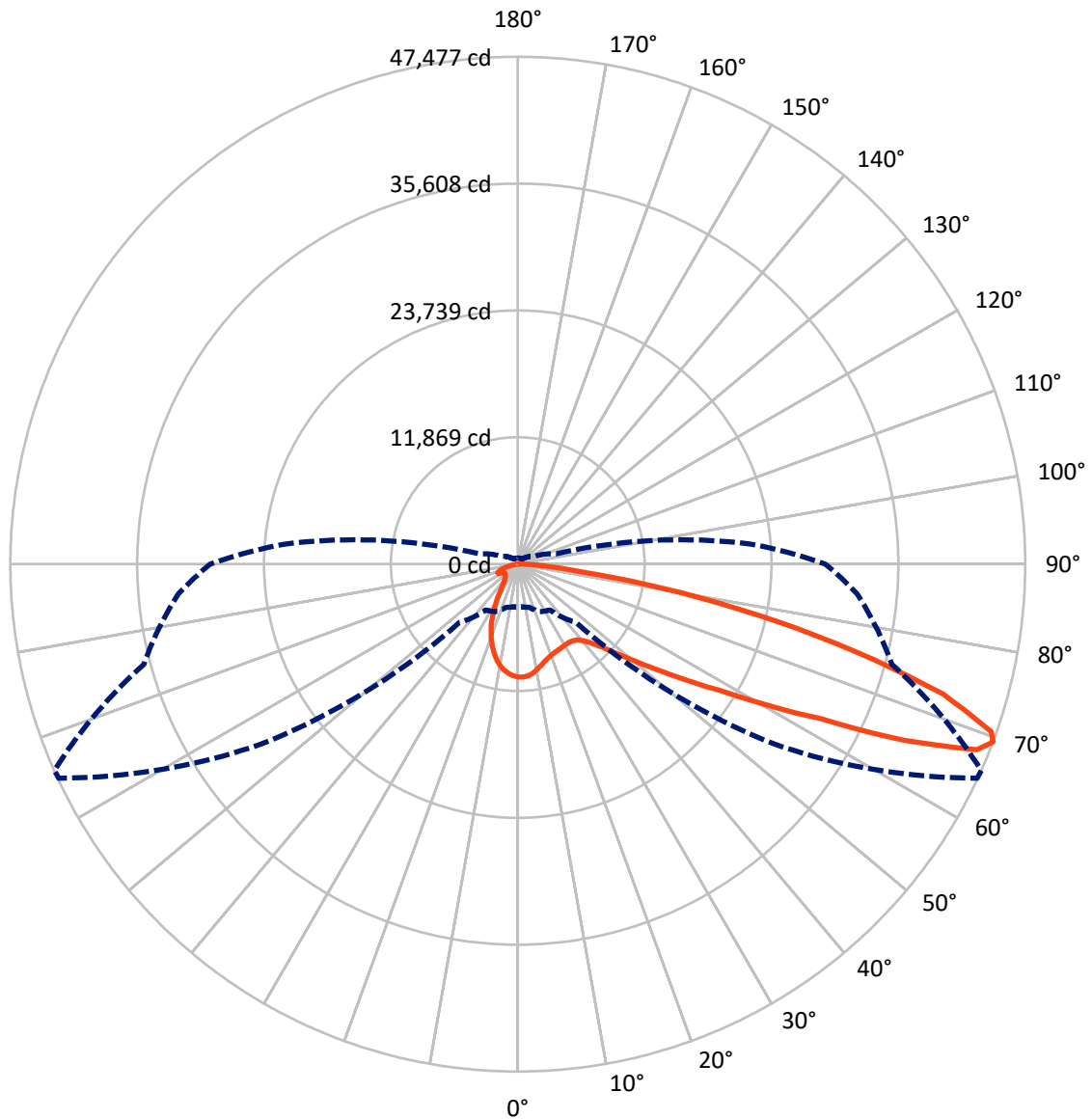
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8611.4	0.0	8611.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	37178.6	0.0	37178.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	45790.0	0.0	45790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.3	2.0
10°-20°	2178.0	4.8
20°-30°	2965.1	6.5
30°-40°	3984.4	8.7
40°-50°	5949.4	13.0
50°-60°	9463.5	20.7
60°-70°	11639.6	25.4
70°-80°	7573.3	16.5
80°-90°	1118.3	2.4
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°	45790.0	100.0
0°-180°	45790.0	100.0

Coefficient of Utilization



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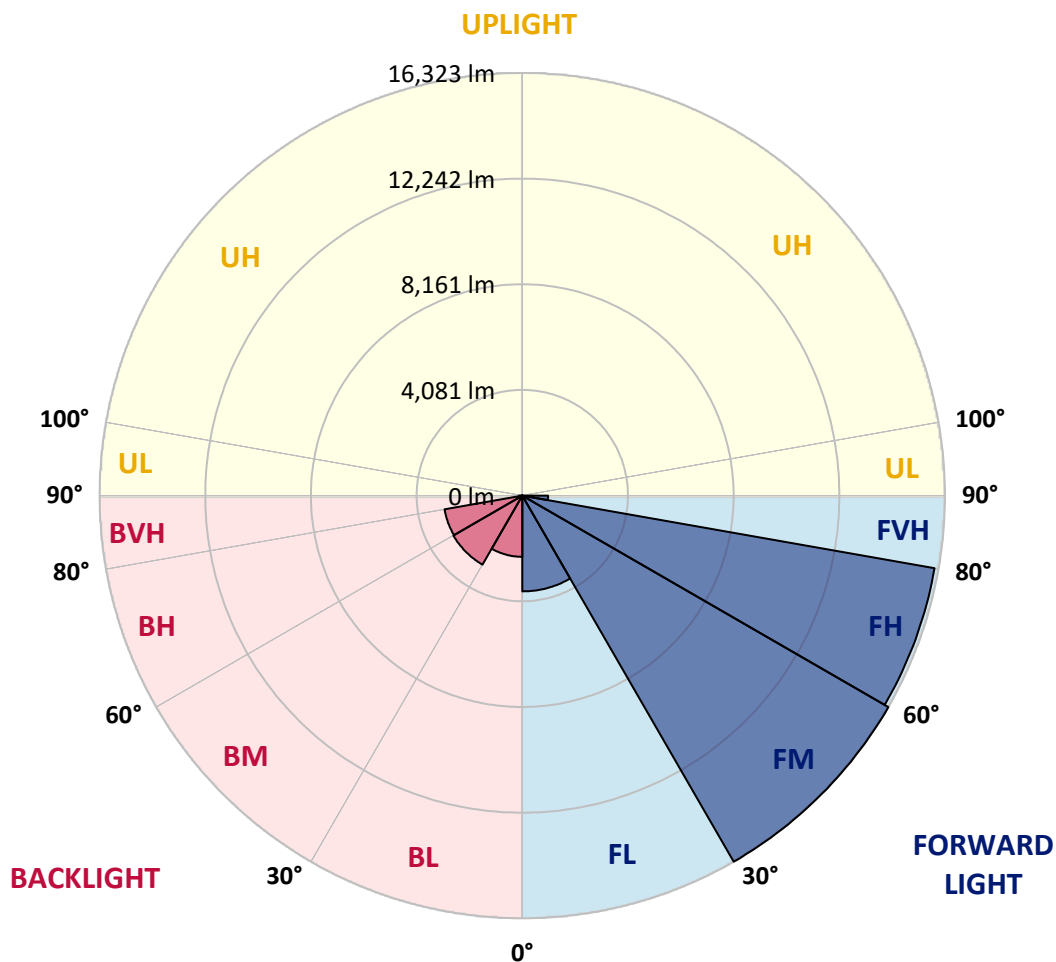
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3697.5	8.1			
FM	(30°-60°)	16322.8	35.6			
FH	(60°-80°)	16164.1	35.3			G5
FVH	(80°-90°)	994.3	2.2			G5
BL	(0°-30°)	2363.9	5.2	B3/2500		
BM	(30°-60°)	3074.6	6.7	B3/5000		
BH	(60°-80°)	3048.8	6.7	B4/5000		G4/5000
BVH	(80°-90°)	124.1	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2
2.5°	10204.0	10244.5	10290.2	10340.9	10437.3	10490.5	10528.5	10571.6	10576.7	10599.5	10581.8
5°	9450.8	9499.0	9567.5	9663.8	9808.4	10034.1	10267.4	10457.5	10480.4	10586.9	10617.3
7.5°	8822.0	8849.9	8905.6	9060.3	9265.7	9516.8	9856.6	10242.0	10297.8	10551.4	10640.1
10°	8309.7	8337.6	8403.6	8563.3	8766.2	9080.6	9453.4	9960.5	10006.2	10442.3	10645.2
12.5°	7926.8	7952.2	8023.2	8180.4	8413.7	8707.9	9118.6	9656.2	9722.2	10297.8	10597.0
15°	7635.2	7683.4	7741.7	7871.0	8117.0	8401.0	8799.1	9377.3	9430.5	10145.6	10564.0
17.5°	7511.0	7533.8	7574.4	7693.5	7873.6	8152.5	8553.2	9159.2	9222.6	10039.1	10556.4
20°	7516.0	7538.9	7546.5	7612.4	7741.7	7982.6	8378.2	8986.8	9062.9	9945.3	10569.1
22.5°	7688.5	7691.0	7663.1	7640.3	7691.0	7891.3	8253.9	8857.5	8946.2	9904.7	10579.3
25°	7954.7	8000.4	7959.8	7853.3	7759.5	7855.8	8205.8	8786.5	8870.1	9846.4	10566.6
27.5°	8385.8	8393.4	8360.5	8215.9	7972.5	7901.5	8185.5	8733.2	8804.2	9803.3	10503.2
30°	8964.0	8941.1	8910.7	8751.0	8368.1	8076.4	8228.6	8685.0	8758.6	9739.9	10427.1
32.5°	9549.7	9620.7	9592.8	9405.2	8908.2	8416.2	8368.1	8680.0	8740.8	9691.7	10343.4
35°	10171.0	10204.0	10335.8	10239.5	9729.8	8966.5	8629.2	8758.6	8806.7	9694.3	10285.1
37.5°	10657.9	10746.6	11056.0	11139.7	10660.4	9694.3	9052.7	8981.7	9002.0	9818.5	10307.9
40°	11246.2	11398.3	11796.4	12138.8	11824.3	10640.1	9772.9	9395.0	9420.4	10117.7	10457.5
42.5°	11991.7	12098.2	12633.2	13097.3	13046.6	11890.3	10645.2	10072.1	10084.8	10713.7	10875.9
45°	12864.0	13016.1	13617.1	14314.5	14433.6	13305.2	11905.5	11096.6	11088.9	11639.2	11657.0
47.5°	13979.7	14073.6	14669.5	15430.2	15912.0	15082.8	13434.5	12567.3	12486.2	12988.2	12843.7
50°	15006.7	15153.8	15605.2	16436.9	17636.3	17164.7	15445.4	14474.2	14284.0	14753.1	14509.7
52.5°	15437.8	15592.5	15972.8	17004.9	19114.7	19857.7	17998.9	16748.8	16431.8	16791.9	16703.2
55°	14689.7	14890.1	15245.1	16500.3	19763.8	22964.0	21442.5	19378.4	19147.6	18993.0	19018.3
57.5°	12678.9	12869.1	13348.3	14732.9	18987.9	25218.3	26359.4	22758.6	22264.1	21551.6	21673.3
60°	9651.2	9770.3	10018.8	11553.0	16687.9	25804.1	31943.2	27031.4	26716.9	24100.0	24186.2
62.5°	6854.2	6988.6	7161.0	7926.8	12217.4	24153.3	36314.8	32998.0	31874.7	26739.8	26656.1
65°	5566.0	5474.7	5682.7	6040.2	7168.6	18719.1	37298.7	41279.9	39733.1	30216.3	29054.9
67.5°	4577.1	4480.7	4686.1	5322.6	5451.9	10865.8	33753.7	46655.7	46346.4	33997.1	31491.8
69°	4052.2	4001.5	4181.5	4906.7	5233.8	7716.4	29404.9	47403.8	47477.3	36226.1	31867.1
70°	3651.5	3671.8	3846.8	4696.3	5134.9	6362.3	25132.1	46371.7	46995.5	37339.3	31461.4
72.5°	2687.9	2731.0	2974.5	3889.9	5041.1	5398.7	14956.0	40503.9	41607.0	37405.2	28781.1
75°	1879.0	1858.7	2074.3	2928.8	4762.2	5350.5	8783.9	31324.4	32574.6	32331.1	24183.7
77.5°	1229.9	1262.8	1435.2	2069.2	4006.5	5309.9	5725.8	22223.5	23035.0	21622.6	14304.3
80°	867.2	864.7	961.1	1412.4	2971.9	5102.0	4688.6	14007.6	13802.2	8497.4	4242.4
82.5°	497.0	532.5	644.1	994.0	1988.0	4490.9	4313.4	6699.5	6116.3	2421.7	1432.7
85°	276.4	289.1	382.9	601.0	1161.4	3382.7	3765.6	3048.0	2875.6	1011.8	616.2
87.5°	88.8	96.4	159.8	304.3	527.4	1597.5	2132.6	1407.4	1298.3	365.2	248.5
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°	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2	10574.2
2.5°	10589.4	10619.8	10538.7	10460.1	10389.1	10290.2	10201.4	10127.9	10077.2	10069.6	10044.2
5°	10624.9	10627.4	10472.8	10264.8	10062.0	9838.8	9608.1	9443.2	9288.5	9202.3	9159.2
7.5°	10650.3	10627.4	10348.5	10011.2	9620.7	9215.0	8809.3	8484.7	8233.7	8134.8	8172.8
10°	10640.1	10569.1	10160.9	9620.7	9052.7	8446.7	7863.4	7407.0	6988.6	6773.1	6778.1
12.5°	10584.3	10467.7	9881.9	9182.0	8347.8	7536.3	6643.7	6027.5	5543.2	5256.7	5167.9
15°	10536.1	10333.3	9554.8	8586.1	7549.0	6390.2	5302.3	4541.6	4135.8	3910.2	3907.6
17.5°	10485.4	10204.0	9197.3	7954.7	6631.1	5140.0	3998.9	3418.2	3228.0	3250.9	3212.8
20°	10432.2	10051.8	8824.5	7252.3	5512.8	3834.1	2994.8	2758.9	2812.2	2916.1	2931.4
22.5°	10371.3	9889.5	8423.8	6478.9	4336.2	2885.7	2429.3	2393.8	2530.7	2693.0	2715.8
25°	10277.5	9686.7	7919.2	5670.0	3344.7	2325.3	2127.5	2152.9	2287.3	2424.2	2439.4
27.5°	10145.6	9435.6	7409.5	4660.8	2513.0	1995.7	1944.9	1977.9	2043.8	2127.5	2147.8
30°	9968.1	9151.6	6823.8	3788.4	2013.4	1830.8	1810.5	1828.3	1866.3	1901.8	1912.0
32.5°	9790.6	8877.7	6232.9	2900.9	1795.3	1721.8	1701.5	1701.5	1701.5	1706.6	1709.1
35°	9625.8	8619.1	5599.0	2259.4	1681.2	1635.6	1607.7	1577.3	1572.2	1554.4	1554.4
37.5°	9534.5	8383.3	4924.5	1891.7	1597.5	1564.6	1526.5	1475.8	1447.9	1450.5	1445.4
40°	9552.3	8228.6	4310.8	1683.8	1529.1	1493.6	1435.2	1376.9	1359.2	1359.2	1354.1
42.5°	9752.6	8177.9	3722.5	1574.7	1463.1	1422.6	1349.0	1295.8	1285.6	1283.1	1288.2
45°	10214.1	8302.1	3195.1	1503.7	1407.4	1346.5	1273.0	1224.8	1214.6	1214.6	1212.1
47.5°	11114.3	8705.3	2817.2	1458.1	1366.8	1288.2	1212.1	1163.9	1146.2	1141.1	1141.1
50°	12514.1	9580.2	2535.8	1417.5	1316.1	1234.9	1156.3	1100.5	1072.6	1070.1	1067.6
52.5°	14459.0	10944.4	2426.7	1387.1	1260.3	1179.1	1092.9	1039.7	1004.2	996.6	991.5
55°	16733.6	12848.8	2576.3	1364.2	1202.0	1115.7	1027.0	971.2	938.2	923.0	920.5
57.5°	19368.3	15136.0	3144.4	1333.8	1148.7	1047.3	961.1	905.3	869.8	852.0	846.9
60°	21734.1	17486.7	4135.8	1316.1	1103.1	973.7	885.0	834.3	801.3	783.6	781.0
62.5°	24333.3	19728.3	5320.1	1364.2	1082.8	902.7	814.0	768.3	740.4	722.7	722.7
65°	27110.0	21972.5	6103.6	1526.5	1113.2	846.9	737.9	699.9	674.5	661.8	659.3
67.5°	28981.4	22748.4	5028.4	1693.9	1189.3	786.1	664.4	633.9	618.7	606.1	606.1
69°	28778.5	21767.1	3709.8	1737.0	1212.1	755.7	623.8	601.0	580.7	575.6	570.5
70°	28137.0	20648.8	3108.9	1709.1	1194.4	727.8	598.4	570.5	552.8	547.7	545.2
72.5°	25061.1	17907.6	2315.2	1486.0	1016.8	631.4	530.0	504.6	489.4	481.8	481.8
75°	20821.3	14636.5	1808.0	1181.7	796.2	532.5	453.9	433.6	420.9	415.9	413.3
77.5°	11669.6	8172.8	1298.3	925.6	603.5	431.1	380.4	362.6	349.9	344.9	344.9
80°	3250.9	2335.4	763.3	611.1	410.8	327.1	301.8	289.1	271.3	258.6	266.3
82.5°	1224.8	1011.8	436.2	367.7	261.2	218.1	210.5	200.3	192.7	175.0	175.0
85°	595.9	491.9	278.9	195.3	144.5	114.1	109.0	104.0	98.9	86.2	88.8
87.5°	205.4	218.1	121.7	71.0	43.1	27.9	22.8	12.7	12.7	12.7	12.7
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)