

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: P456229

Luminaire Tested: **GALN-SA7C-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456229
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-SA7C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA 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: 40878 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

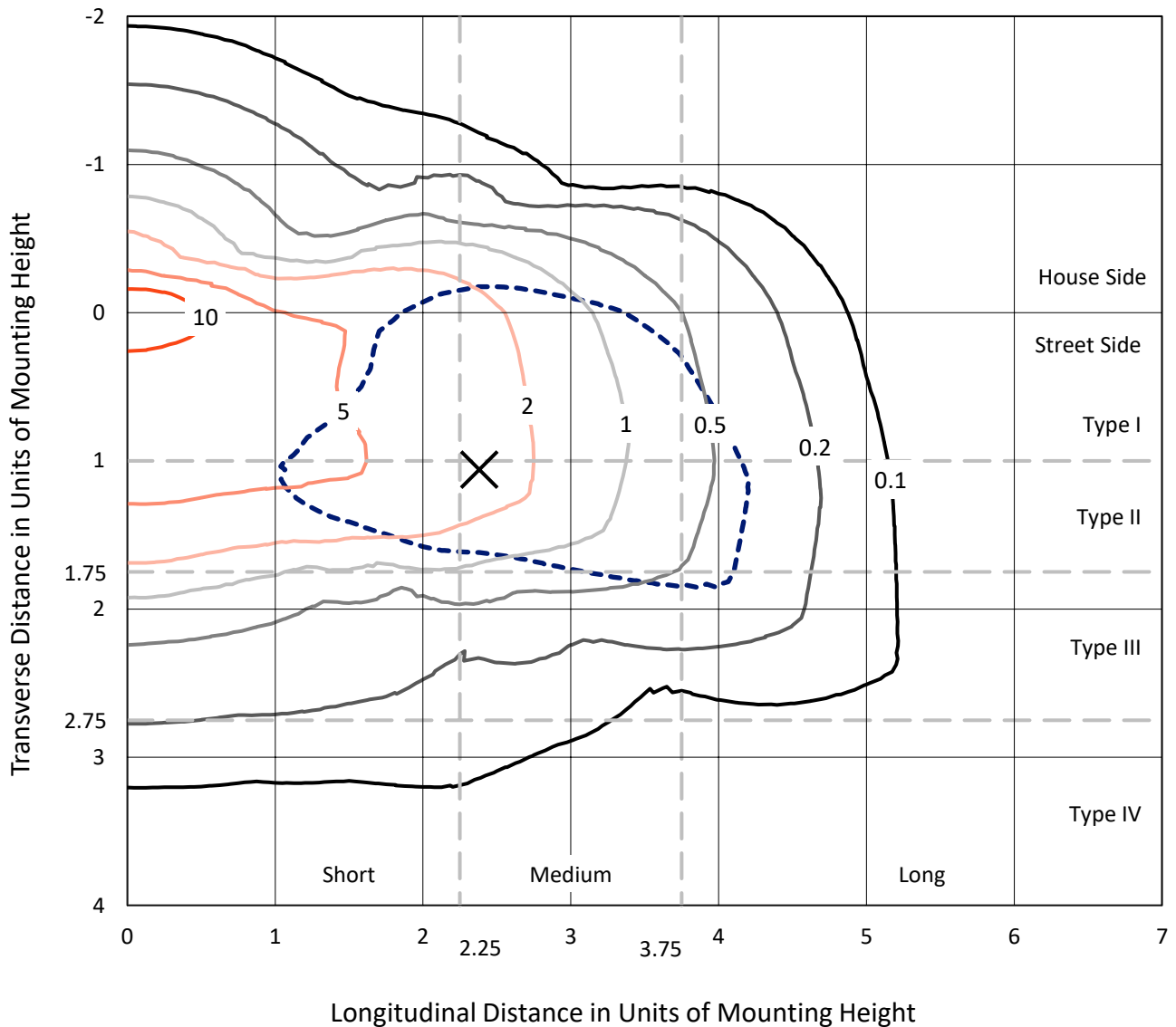
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

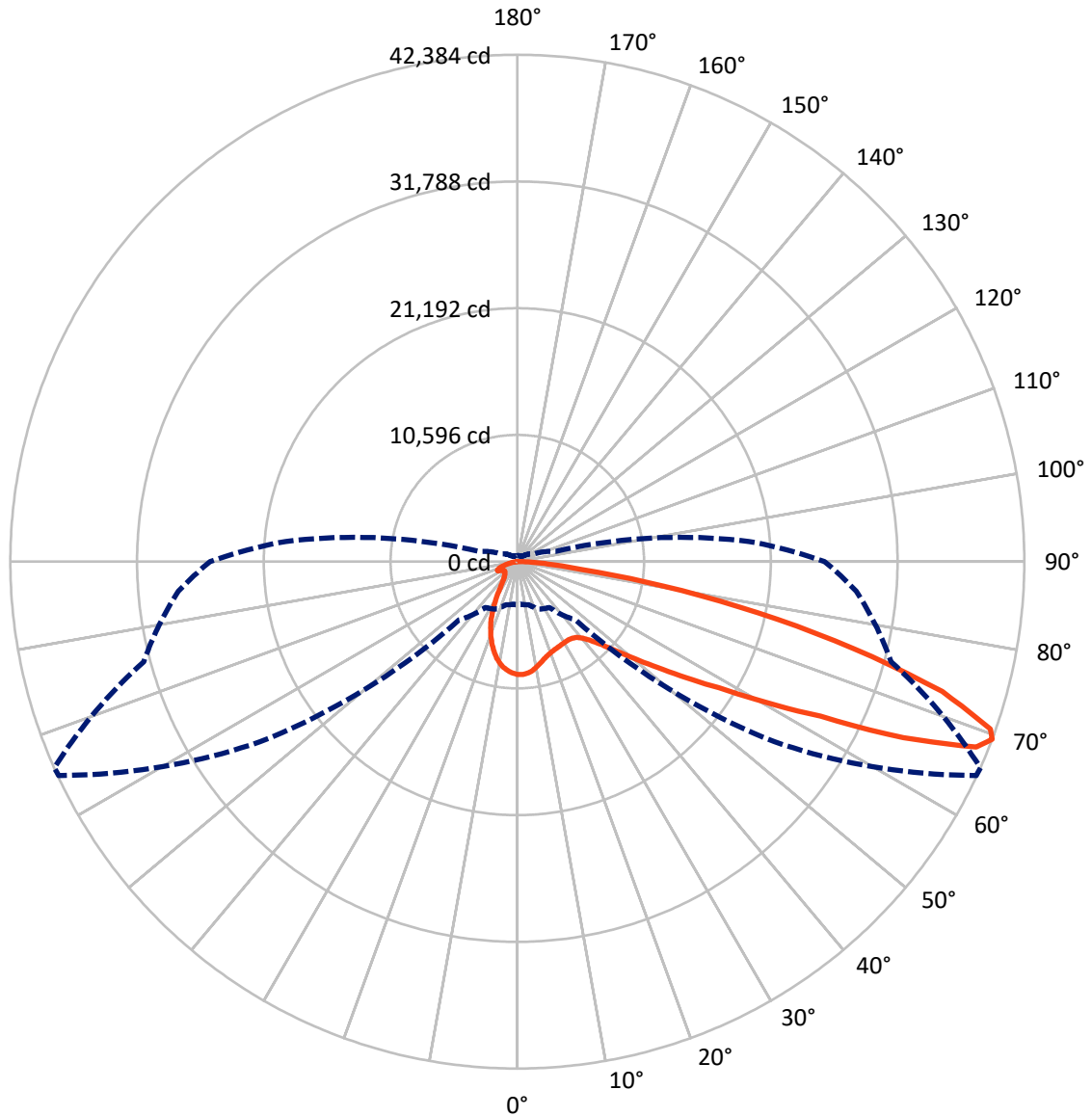
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	7687.6	0.0	7687.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33190.4	0.0	33190.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	40878.0	0.0	40878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.8	2.0
10°-20°	1944.4	4.8
20°-30°	2647.0	6.5
30°-40°	3557.0	8.7
40°-50°	5311.2	13.0
50°-60°	8448.4	20.7
60°-70°	10391.0	25.4
70°-80°	6760.9	16.5
80°-90°	998.4	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°	40878.0	100.0
0°-180°	40878.0	100.0

Coefficient of Utilization



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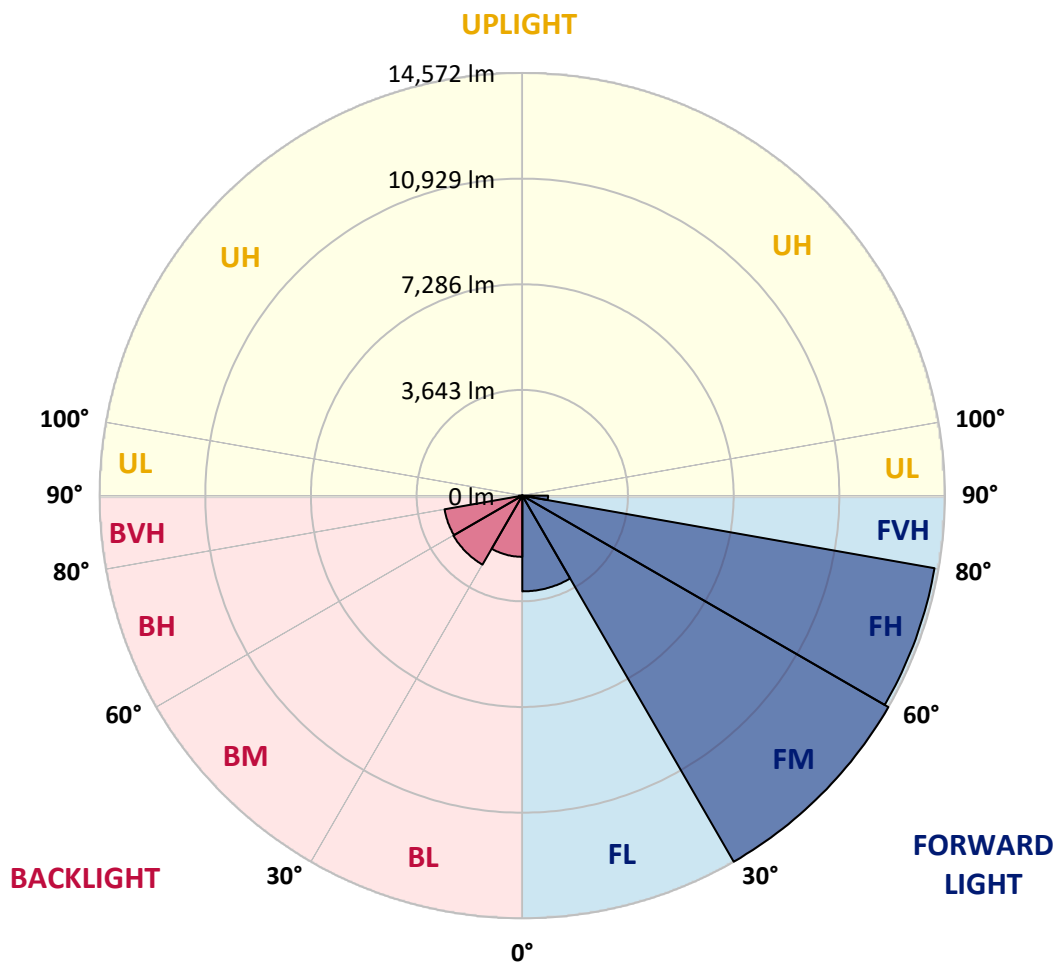
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3300.9	8.1			
FM	(30°-60°)	14571.8	35.6			
FH	(60°-80°)	14430.1	35.3			G5
FVH	(80°-90°)	887.6	2.2			G5
BL	(0°-30°)	2110.3	5.2	B3/2500		
BM	(30°-60°)	2744.8	6.7	B3/5000		
BH	(60°-80°)	2721.8	6.7	B4/5000		G4/5000
BVH	(80°-90°)	110.8	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°	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9
2.5°	9109.4	9145.6	9186.3	9231.6	9317.6	9365.2	9399.1	9437.6	9442.1	9462.5	9446.7
5°	8437.0	8480.0	8541.2	8627.2	8756.2	8957.7	9166.0	9335.7	9356.1	9451.2	9478.3
7.5°	7875.6	7900.5	7950.3	8088.4	8271.8	8495.9	8799.2	9143.3	9193.1	9419.5	9498.7
10°	7418.3	7443.2	7502.1	7644.7	7825.8	8106.5	8439.3	8892.0	8932.8	9322.2	9503.3
12.5°	7076.5	7099.1	7162.5	7302.9	7511.1	7773.7	8140.5	8620.4	8679.2	9193.1	9460.2
15°	6816.2	6859.2	6911.2	7026.7	7246.3	7499.8	7855.2	8371.4	8418.9	9057.3	9430.8
17.5°	6705.2	6725.6	6761.8	6868.2	7029.0	7278.0	7635.7	8176.7	8233.3	8962.2	9424.0
20°	6709.8	6730.1	6736.9	6795.8	6911.2	7126.3	7479.5	8022.8	8090.7	8878.5	9435.3
22.5°	6863.7	6866.0	6841.1	6820.7	6866.0	7044.8	7368.5	7907.3	7986.5	8842.2	9444.4
25°	7101.4	7142.2	7105.9	7010.9	6927.1	7013.1	7325.5	7843.9	7918.6	8790.2	9433.1
27.5°	7486.2	7493.0	7463.6	7334.6	7117.3	7053.9	7307.4	7796.4	7859.8	8751.7	9376.5
30°	8002.4	7982.0	7954.8	7812.2	7470.4	7210.1	7345.9	7753.4	7819.0	8695.1	9308.6
32.5°	8525.3	8588.7	8563.8	8396.3	7952.6	7513.4	7470.4	7748.8	7803.2	8652.1	9233.9
35°	9079.9	9109.4	9227.1	9141.1	8686.0	8004.6	7703.6	7819.0	7862.0	8654.3	9181.8
37.5°	9514.6	9593.8	9870.0	9944.7	9516.8	8654.3	8081.6	8018.2	8036.3	8765.3	9202.2
40°	10039.8	10175.6	10531.0	10836.6	10555.9	9498.7	8724.5	8387.2	8409.9	9032.4	9335.7
42.5°	10705.3	10800.4	11278.0	11692.3	11647.0	10614.8	9503.3	8991.6	9003.0	9564.4	9709.3
45°	11484.0	11619.9	12156.4	12778.9	12885.3	11877.9	10628.3	9906.2	9899.4	10390.6	10406.5
47.5°	12480.1	12563.9	13095.8	13775.0	14205.1	13464.8	11993.4	11219.2	11146.7	11595.0	11465.9
50°	13396.9	13528.2	13931.2	14673.7	15744.4	15323.4	13788.5	12921.5	12751.7	13170.5	12953.2
52.5°	13781.8	13919.8	14259.4	15180.8	17064.2	17727.5	16068.1	14952.1	14669.1	14990.6	14911.4
55°	13113.9	13292.8	13609.7	14730.3	17643.7	20500.6	19142.3	17299.6	17093.6	16955.5	16978.2
57.5°	11318.8	11488.6	11916.4	13152.4	16951.0	22513.1	23531.8	20317.2	19875.8	19239.7	19348.3
60°	8615.9	8722.3	8944.1	10313.7	14897.8	23036.0	28516.5	24131.6	23850.9	21514.7	21591.7
62.5°	6118.9	6238.9	6392.8	7076.5	10906.8	21562.3	32419.3	29458.3	28455.4	23871.3	23796.6
65°	4968.9	4887.5	5073.1	5392.3	6399.6	16711.1	33297.6	36851.7	35470.8	26974.9	25938.1
67.5°	4086.1	4000.1	4183.4	4751.6	4867.1	9700.2	30132.9	41650.9	41374.7	30350.2	28113.6
69°	3617.5	3572.2	3732.9	4380.4	4672.4	6888.6	26250.5	42318.7	42384.3	32340.0	28448.6
70°	3259.8	3277.9	3434.1	4192.5	4584.1	5679.8	22436.1	41397.3	41954.2	33333.8	28086.4
72.5°	2399.6	2438.1	2655.4	3472.6	4500.3	4819.5	13351.6	36159.0	37143.7	33392.7	25693.6
75°	1677.4	1659.3	1851.8	2614.6	4251.3	4776.5	7841.7	27964.2	29080.2	28862.9	21589.4
77.5°	1097.9	1127.4	1281.3	1847.2	3576.7	4740.3	5111.6	19839.6	20564.0	19303.1	12769.9
80°	774.2	771.9	858.0	1260.9	2653.1	4554.7	4185.7	12505.0	12321.6	7585.8	3787.3
82.5°	443.7	475.4	575.0	887.4	1774.8	4009.1	3850.7	5980.8	5460.2	2161.9	1279.0
85°	246.7	258.1	341.8	536.5	1036.8	3019.9	3361.7	2721.0	2567.1	903.2	550.1
87.5°	79.2	86.0	142.6	271.7	470.9	1426.2	1903.8	1256.4	1159.0	326.0	221.8
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°	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9	9439.9
2.5°	9453.4	9480.6	9408.2	9338.0	9274.6	9186.3	9107.1	9041.4	8996.2	8989.4	8966.7
5°	9485.1	9487.4	9349.3	9163.7	8982.6	8783.4	8577.4	8430.2	8292.1	8215.2	8176.7
7.5°	9507.8	9487.4	9238.4	8937.3	8588.7	8226.5	7864.3	7574.5	7350.4	7262.1	7296.1
10°	9498.7	9435.3	9070.9	8588.7	8081.6	7540.6	7019.9	6612.4	6238.9	6046.5	6051.0
12.5°	9448.9	9344.8	8821.9	8197.1	7452.3	6727.9	5931.0	5380.9	4948.6	4692.8	4613.5
15°	9405.9	9224.8	8529.8	7665.1	6739.2	5704.7	4733.5	4054.4	3692.2	3490.7	3488.4
17.5°	9360.6	9109.4	8210.6	7101.4	5919.7	4588.6	3569.9	3051.5	2881.8	2902.1	2868.2
20°	9313.1	8973.5	7877.9	6474.3	4921.4	3422.8	2673.5	2463.0	2510.5	2603.3	2616.9
22.5°	9258.8	8828.7	7520.2	5783.9	3871.0	2576.2	2168.7	2137.0	2259.2	2404.1	2424.5
25°	9175.0	8647.6	7069.7	5061.8	2985.9	2075.9	1899.3	1921.9	2041.9	2164.2	2177.7
27.5°	9057.3	8423.4	6614.7	4160.8	2243.4	1781.6	1736.3	1765.7	1824.6	1899.3	1917.4
30°	8898.8	8169.9	6091.8	3382.1	1797.4	1634.4	1616.3	1632.2	1666.1	1697.8	1706.9
32.5°	8740.4	7925.4	5564.3	2589.7	1602.7	1537.1	1519.0	1519.0	1519.0	1523.5	1525.8
35°	8593.2	7694.5	4998.4	2017.0	1500.9	1460.1	1435.2	1408.1	1403.5	1387.7	1387.7
37.5°	8511.7	7484.0	4396.2	1688.8	1426.2	1396.7	1362.8	1317.5	1292.6	1294.9	1290.3
40°	8527.6	7345.9	3848.4	1503.1	1365.0	1333.4	1281.3	1229.2	1213.4	1213.4	1208.8
42.5°	8706.4	7300.6	3323.2	1405.8	1306.2	1270.0	1204.3	1156.8	1147.7	1145.5	1150.0
45°	9118.4	7411.5	2852.3	1342.4	1256.4	1202.1	1136.4	1093.4	1084.3	1084.3	1082.1
47.5°	9922.0	7771.5	2515.0	1301.7	1220.2	1150.0	1082.1	1039.1	1023.2	1018.7	1018.7
50°	11171.6	8552.5	2263.8	1265.4	1174.9	1102.4	1032.3	982.5	957.6	955.3	953.0
52.5°	12907.9	9770.4	2166.4	1238.3	1125.1	1052.6	975.7	928.1	896.4	889.7	885.1
55°	14938.5	11470.5	2300.0	1217.9	1073.0	996.1	916.8	867.0	837.6	824.0	821.7
57.5°	17290.6	13512.4	2807.1	1190.7	1025.5	934.9	858.0	808.2	776.5	760.6	756.1
60°	19402.7	15610.9	3692.2	1174.9	984.7	869.3	790.1	744.8	715.3	699.5	697.2
62.5°	21723.0	17612.0	4749.4	1217.9	966.6	805.9	726.7	685.9	661.0	645.2	645.2
65°	24201.8	19615.5	5448.9	1362.8	993.8	756.1	658.8	624.8	602.2	590.8	588.6
67.5°	25872.5	20308.2	4489.0	1512.2	1061.7	701.8	593.1	565.9	552.4	541.0	541.0
69°	25691.4	19432.1	3311.9	1550.7	1082.1	674.6	556.9	536.5	518.4	513.9	509.3
70°	25118.6	18433.8	2775.4	1525.8	1066.2	649.7	534.2	509.3	493.5	489.0	486.7
72.5°	22372.7	15986.7	2066.8	1326.6	907.8	563.7	473.1	450.5	436.9	430.1	430.1
75°	18587.7	13066.4	1614.1	1054.9	710.8	475.4	405.2	387.1	375.8	371.3	369.0
77.5°	10417.8	7296.1	1159.0	826.3	538.8	384.8	339.6	323.7	312.4	307.9	307.9
80°	2902.1	2084.9	681.4	545.6	366.7	292.0	269.4	258.1	242.2	230.9	237.7
82.5°	1093.4	903.2	389.4	328.2	233.2	194.7	187.9	178.8	172.0	156.2	156.2
85°	532.0	439.2	249.0	174.3	129.0	101.9	97.3	92.8	88.3	77.0	79.2
87.5°	183.4	194.7	108.7	63.4	38.5	24.9	20.4	11.3	11.3	11.3	11.3
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)