

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: P383235

Luminaire Tested: **GLEON-SA5C-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32937.7 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

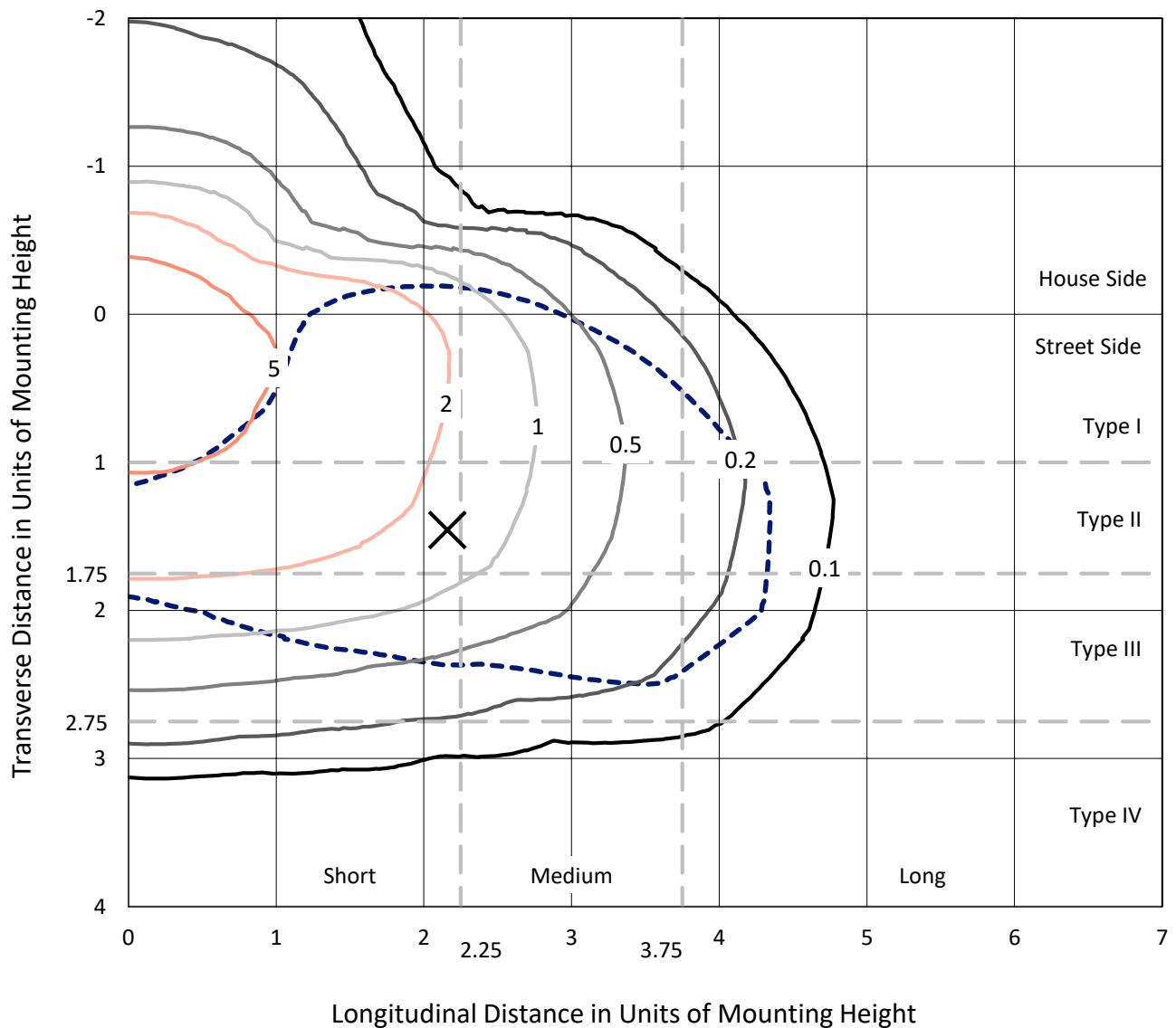
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

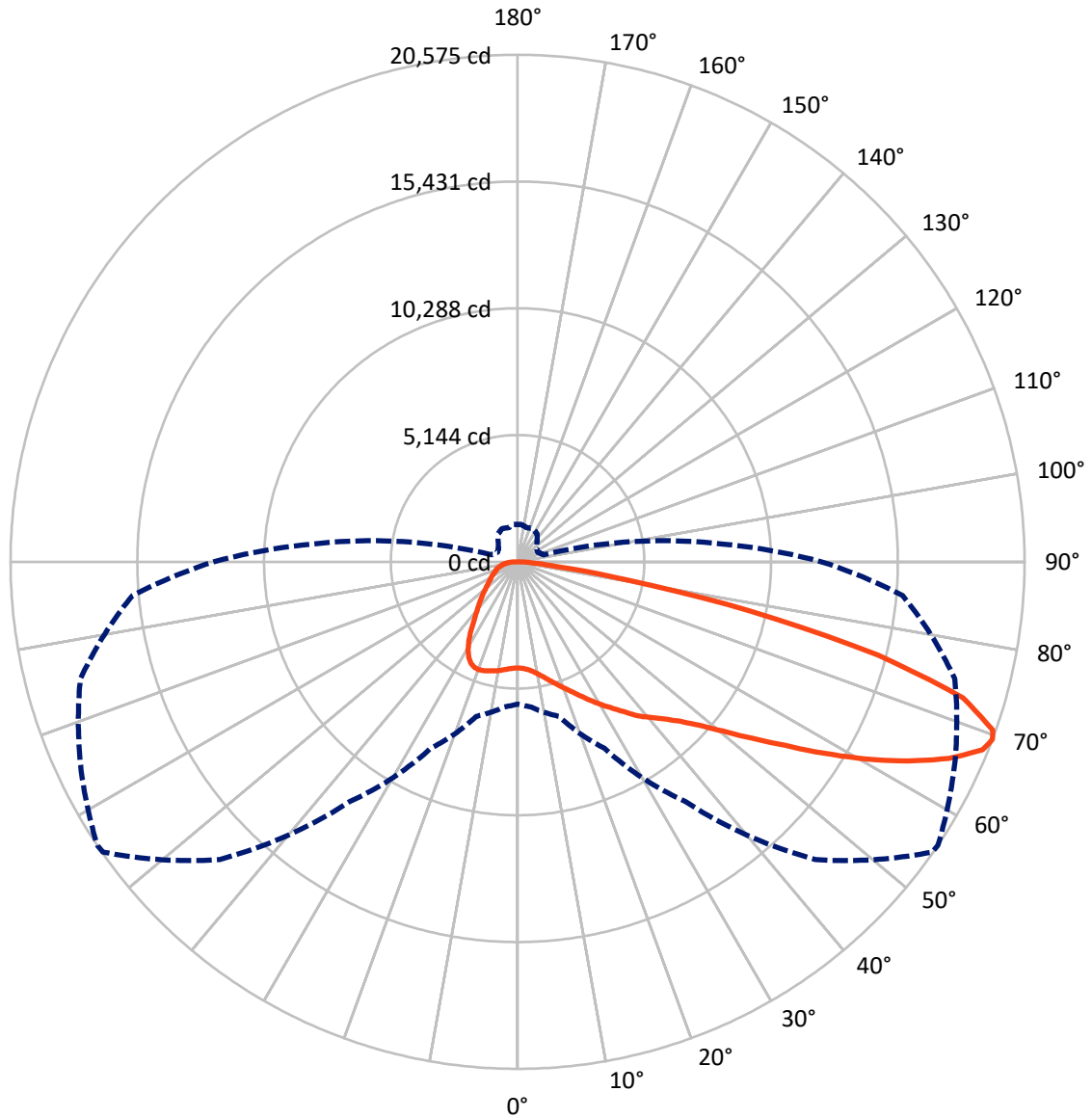
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7335.2	0.0	7335.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25602.5	0.0	25602.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	32937.7	0.0	32937.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.9	1.3
10°-20°	1360.0	4.1
20°-30°	2374.0	7.2
30°-40°	3410.1	10.4
40°-50°	4719.5	14.3
50°-60°	6914.7	21.0
60°-70°	8430.3	25.6
70°-80°	4660.8	14.2
80°-90°	645.5	2.0
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°	32937.7	100.0
0°-180°	32937.7	100.0

Coefficient of Utilization

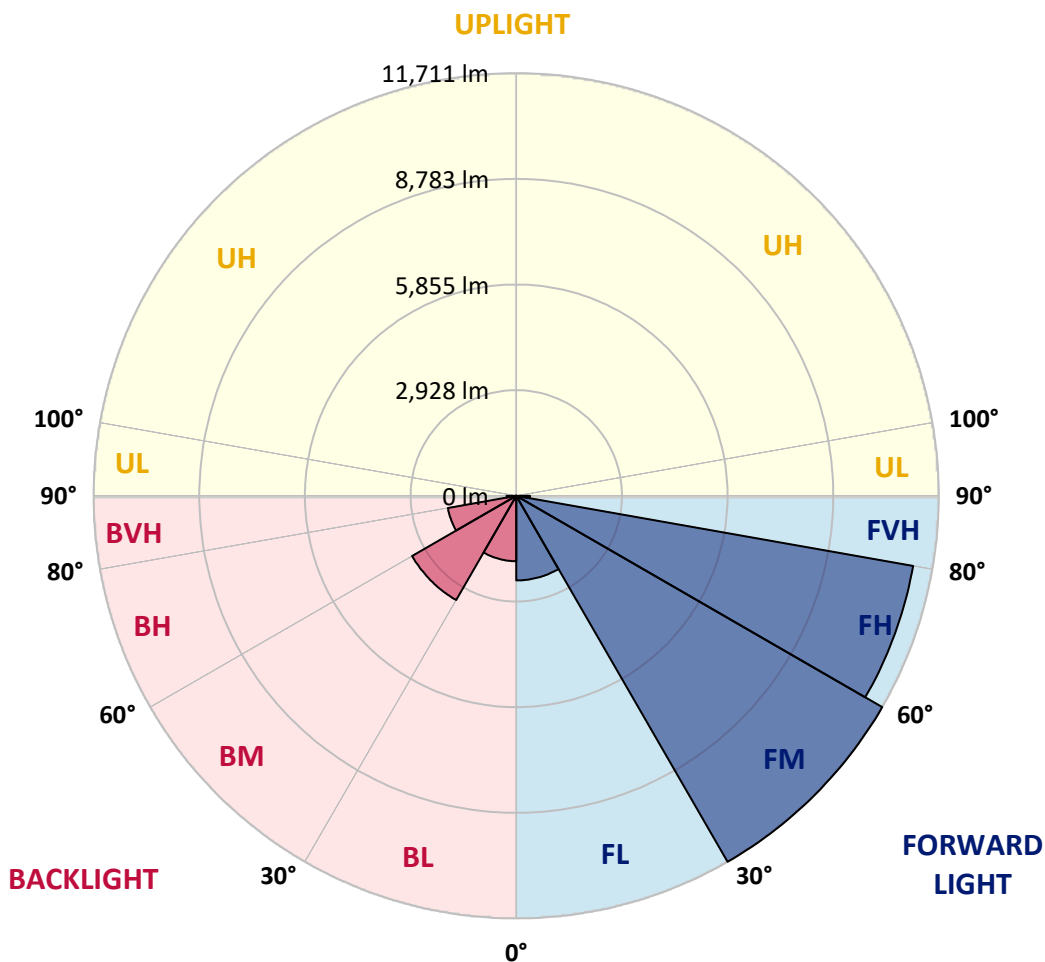


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.2	7.1			
FM (30°-60°)	11710.6	35.6			
FH (60°-80°)	11167.5	33.9			G4/12000
FVH (80°-90°)	380.2	1.2			G3/500
BL (0°-30°)	1812.7	5.5	B3/2500		
BM (30°-60°)	3333.7	10.1	B3/5000		
BH (60°-80°)	1923.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	265.3	0.8			G3/500
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1
2.5°	4333.4	4337.8	4334.5	4343.5	4333.4	4340.2	4334.5	4334.5	4331.0	4320.9	4309.5
5°	4401.4	4410.5	4404.8	4413.9	4401.4	4403.7	4393.5	4393.5	4383.3	4361.7	4339.0
7.5°	4508.0	4518.3	4513.7	4522.8	4505.8	4505.8	4492.2	4491.1	4470.6	4435.5	4409.4
10°	4635.2	4648.8	4644.2	4657.8	4644.2	4648.8	4635.2	4635.2	4607.9	4558.0	4525.1
12.5°	4820.1	4837.2	4824.7	4823.6	4817.9	4826.9	4815.5	4813.3	4788.3	4720.2	4674.9
15°	5067.4	5085.6	5059.5	5057.3	5025.5	5022.1	5022.1	5018.7	5002.8	4921.1	4846.2
17.5°	5352.3	5358.0	5335.3	5298.9	5258.1	5232.0	5228.6	5237.7	5237.7	5142.3	5023.2
20°	5631.4	5641.6	5623.5	5582.6	5530.4	5491.8	5464.6	5482.8	5481.6	5368.1	5199.1
22.5°	5935.5	5959.3	5932.1	5879.9	5818.6	5775.5	5727.9	5743.7	5744.9	5605.3	5371.6
25°	6329.2	6307.7	6290.6	6216.9	6129.5	6085.2	6041.0	6056.9	6052.4	5860.6	5549.7
27.5°	6677.6	6682.1	6659.4	6581.1	6480.1	6382.6	6380.3	6390.5	6373.5	6126.1	5717.7
30°	7082.6	7084.9	7053.1	6982.8	6872.8	6746.8	6717.3	6734.3	6698.0	6378.0	5894.6
32.5°	7485.5	7496.8	7461.6	7376.6	7288.1	7134.8	7075.8	7087.2	6996.4	6635.6	6077.3
35°	7838.3	7854.3	7842.9	7786.2	7689.7	7558.1	7487.8	7480.9	7368.6	6951.0	6319.1
37.5°	8198.1	8212.8	8200.3	8152.6	8114.1	7974.5	7937.1	7937.1	7741.9	7273.2	6626.6
40°	8567.9	8590.6	8575.9	8510.1	8477.2	8413.6	8324.0	8302.4	8091.4	7660.2	7128.0
42.5°	8911.7	8941.3	9000.2	8961.7	8894.7	8903.8	8723.4	8712.0	8557.8	8232.1	7757.8
45°	9399.7	9442.8	9542.7	9513.2	9499.5	9449.6	9235.2	9224.9	9166.0	9001.4	8539.6
47.5°	9931.9	9990.8	10171.3	10177.0	10323.3	10229.1	9937.5	9902.4	9916.0	9922.8	9493.9
50°	10422.1	10486.7	10782.8	10922.4	11267.3	11287.7	10821.4	10789.7	10843.0	10999.5	10605.9
52.5°	10813.5	10895.2	11265.1	11696.2	12287.4	12455.4	11909.6	11885.7	11925.5	12195.5	11863.1
55°	11100.6	11189.1	11591.9	12377.1	13321.1	13617.3	13162.3	13139.6	13164.5	13508.4	13230.3
57.5°	11167.5	11189.1	11773.5	12835.5	14193.7	14905.1	14695.3	14649.8	14527.3	14826.9	14739.5
60°	10853.2	10939.4	11623.7	12996.6	14868.8	16174.8	16297.4	16240.6	15896.9	16141.9	16071.6
62.5°	10215.5	10369.8	11064.3	12751.5	15133.2	17211.9	17868.9	17800.8	17208.6	17367.4	17029.2
65°	9173.9	9239.6	9969.2	11906.2	14797.4	17875.7	19270.3	19236.2	18490.8	18242.2	17206.2
67.5°	7310.7	7434.4	8054.0	10139.5	13423.2	17797.4	20353.8	20350.5	19328.1	18566.8	16578.8
69°	5775.5	5903.8	6493.7	8352.3	11877.8	17081.4	20535.4	20575.1	19564.1	18369.3	15682.4
70°	4604.5	4753.1	5158.3	7035.0	10506.0	16137.4	20384.5	20455.9	19518.7	18043.6	14855.2
72.5°	1959.6	2079.9	2368.1	3626.4	6403.0	12050.3	18638.2	18908.3	18466.9	16514.1	12277.2
75°	855.5	893.0	1023.5	1478.5	2842.3	6558.5	14601.1	15100.3	15790.2	13958.8	9145.5
77.5°	626.4	642.2	713.8	868.0	1275.4	2477.0	9389.4	9679.9	11387.6	10157.6	5609.9
80°	484.5	495.9	551.5	637.6	832.9	1001.9	4282.2	4531.9	6403.0	5217.2	2336.3
82.5°	385.8	393.8	432.3	469.8	575.3	607.1	1421.7	1577.2	2363.5	1441.0	618.4
85°	358.6	367.7	381.3	342.7	368.8	356.3	615.0	643.3	713.8	566.2	258.7
87.5°	162.3	191.8	377.8	266.6	196.3	156.6	251.9	263.3	296.1	297.3	114.6
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°	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1	4306.1
2.5°	4316.3	4312.9	4318.6	4305.0	4322.0	4320.9	4315.2	4317.4	4328.8	4327.7	4328.8
5°	4342.4	4340.2	4347.0	4336.7	4357.1	4363.9	4365.1	4375.3	4387.8	4391.2	4391.2
7.5°	4408.3	4408.3	4411.6	4398.0	4411.6	4410.5	4404.8	4415.1	4427.6	4428.7	4427.6
10°	4521.7	4522.8	4517.2	4482.0	4470.6	4440.0	4411.6	4412.7	4428.7	4441.2	4444.5
12.5°	4664.6	4660.2	4635.2	4570.5	4522.8	4460.4	4430.9	4429.8	4445.6	4455.9	4459.3
15°	4828.0	4815.5	4750.9	4645.3	4561.4	4500.1	4452.5	4441.2	4432.0	4420.8	4421.9
17.5°	4982.4	4954.0	4846.2	4699.8	4611.3	4529.7	4437.7	4363.9	4312.9	4283.4	4274.3
20°	5139.0	5083.4	4927.9	4750.9	4638.5	4490.0	4312.9	4163.2	4070.1	4027.0	4019.1
22.5°	5282.0	5192.3	5003.9	4804.3	4617.0	4356.0	4078.0	3860.1	3730.8	3673.0	3677.5
25°	5421.5	5296.7	5083.4	4841.6	4508.0	4120.0	3751.2	3483.4	3333.7	3269.0	3266.8
27.5°	5544.0	5402.2	5169.6	4811.1	4305.0	3784.1	3364.3	3103.4	2978.5	2922.9	2913.9
30°	5684.8	5535.0	5284.2	4694.2	4007.7	3396.0	2986.4	2802.7	2714.2	2658.5	2648.3
32.5°	5856.1	5715.4	5378.4	4482.0	3627.5	2991.0	2691.4	2563.2	2482.7	2420.3	2408.9
35°	6105.7	5953.6	5402.2	4177.9	3210.0	2671.0	2474.7	2343.1	2234.2	2153.6	2145.6
37.5°	6418.8	6252.1	5347.7	3784.1	2804.9	2463.4	2294.3	2132.0	1990.3	1876.8	1858.6
40°	6870.4	6618.6	5196.8	3330.3	2506.5	2303.4	2118.4	1933.5	1757.6	1624.9	1598.7
42.5°	7412.9	7048.6	4965.3	2878.7	2287.5	2141.2	1943.7	1714.5	1546.6	1452.4	1438.8
45°	8102.7	7495.7	4644.2	2483.8	2071.9	1978.9	1755.3	1544.3	1439.9	1370.7	1359.3
47.5°	8890.2	7997.2	4307.2	2162.7	1889.3	1826.9	1604.4	1468.3	1385.4	1331.0	1320.7
50°	9858.1	8563.4	3949.9	1899.4	1705.4	1644.2	1533.0	1426.3	1360.5	1318.5	1308.3
52.5°	10949.6	9202.2	3692.3	1691.8	1553.4	1509.1	1495.5	1403.6	1350.3	1318.5	1308.3
55°	12125.2	9852.4	3414.2	1517.0	1421.7	1434.2	1470.5	1405.9	1369.6	1331.0	1316.2
57.5°	13301.8	10524.2	3104.5	1369.6	1317.4	1378.6	1453.5	1410.4	1379.8	1342.4	1328.7
60°	14232.3	10949.6	2624.5	1245.9	1234.5	1317.4	1412.7	1376.4	1336.7	1337.8	1335.6
62.5°	14666.8	10927.0	2094.6	1135.8	1151.7	1234.5	1346.8	1323.1	1290.1	1334.3	1337.8
65°	14422.9	10382.3	1630.5	1036.0	1063.2	1148.3	1278.8	1296.9	1308.3	1393.4	1404.8
67.5°	13399.4	9322.6	1262.9	948.6	982.6	1089.3	1285.6	1412.7	1427.4	1517.0	1515.9
69°	12340.8	8328.5	1097.3	903.2	942.9	1104.1	1374.1	1486.5	1430.9	1526.2	1512.6
70°	11453.5	7542.2	1008.8	872.6	924.7	1130.2	1433.1	1485.3	1413.8	1495.5	1472.8
72.5°	8821.0	5426.0	855.5	815.8	863.5	1081.3	1450.1	1452.4	1374.1	1390.0	1351.4
75°	6050.1	3429.0	746.6	738.7	770.5	974.7	1395.6	1387.7	1270.8	1248.2	1216.4
77.5°	3336.0	1741.7	634.3	664.9	686.5	863.5	1268.6	1257.2	1160.8	1113.1	1101.7
80°	1286.7	762.5	535.5	591.2	604.8	747.8	1112.0	1101.7	1021.3	960.0	942.9
82.5°	485.6	399.4	442.5	511.7	507.2	617.2	941.8	936.1	857.9	768.2	741.0
85°	224.7	239.4	350.6	422.1	389.2	457.3	753.4	763.7	668.3	561.6	561.6
87.5°	95.3	133.9	248.5	318.9	262.1	308.6	552.6	527.6	484.5	335.8	315.4
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)