

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: P458923

Luminaire Tested: **GALN-SA4C-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26162 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

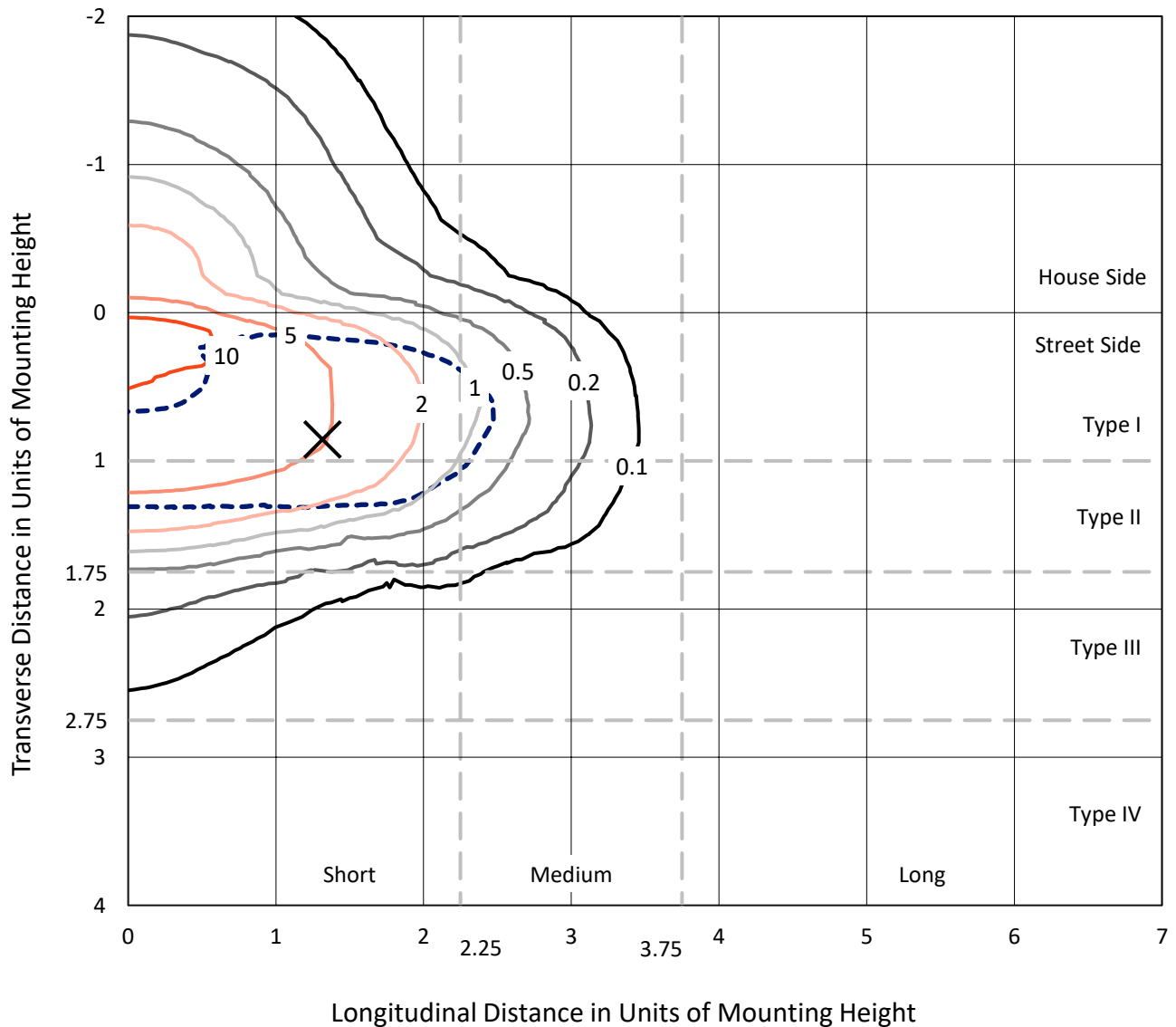
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

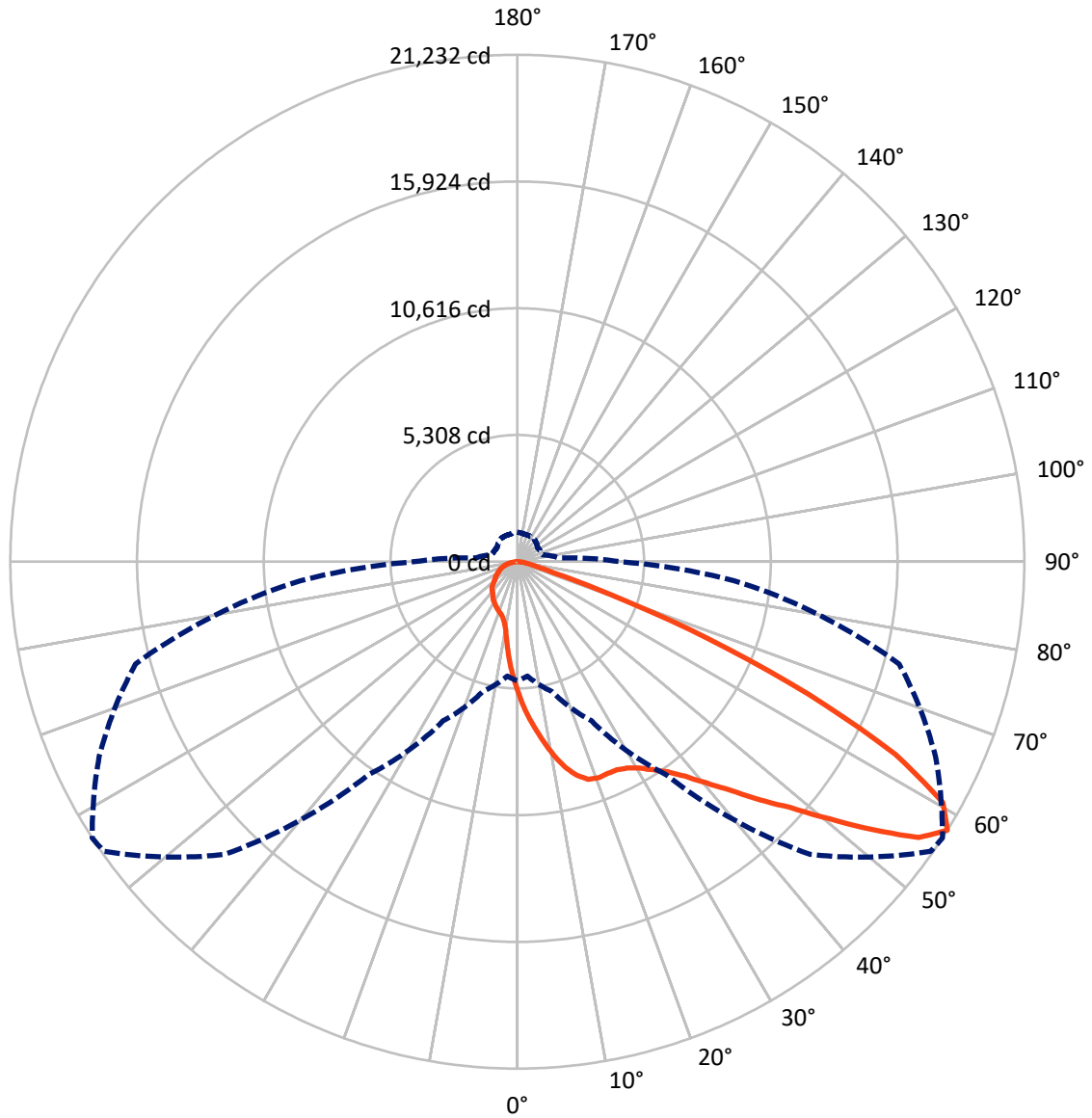
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3978.5	0.0	3978.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	22183.5	0.0	22183.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	26162.0	0.0	26162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.3	2.0
10°-20°	1556.8	6.0
20°-30°	2585.1	9.9
30°-40°	3893.9	14.9
40°-50°	5846.3	22.3
50°-60°	6553.0	25.0
60°-70°	3835.1	14.7
70°-80°	1134.4	4.3
80°-90°	229.3	0.9
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°	26162.0	100.0
0°-180°	26162.0	100.0

Coefficient of Utilization



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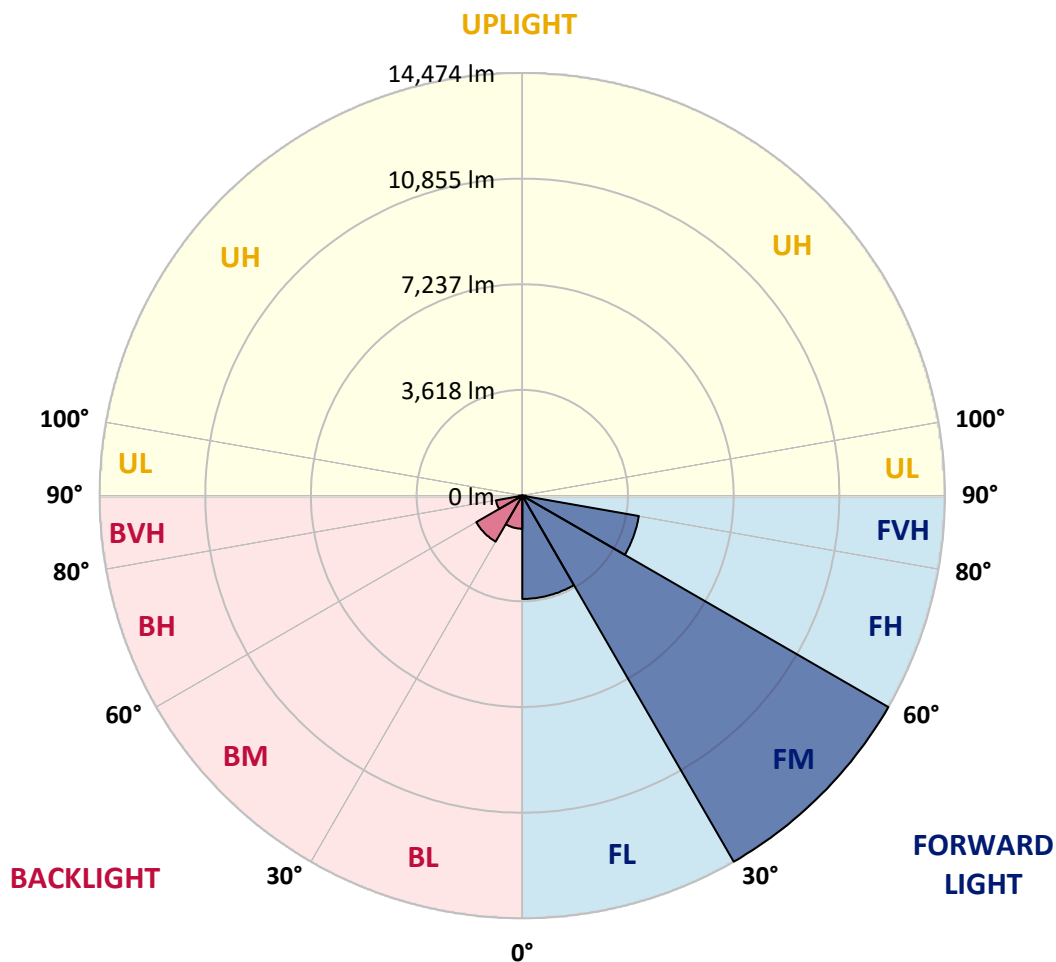
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3536.5	13.5			
FM	(30°-60°)	14474.0	55.3			
FH	(60°-80°)	4054.1	15.5			G2/5000
FVH	(80°-90°)	119.0	0.5			G2/225
BL	(0°-30°)	1133.6	4.3	B3/2500		
BM	(30°-60°)	1819.1	7.0	B2/2500		
BH	(60°-80°)	915.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	110.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3
2.5°	6829.6	6755.1	6696.4	6644.9	6577.6	6395.7	6213.8	6210.9	6066.3	5842.9	5613.8
5°	7942.3	7842.1	7855.0	7694.6	7534.2	7270.7	6885.5	6865.4	6557.5	6139.3	5714.0
7.5°	8667.0	8668.4	8628.3	8536.7	8363.4	8064.1	7627.3	7528.5	7100.3	6465.9	5828.6
10°	8629.7	8668.4	8735.7	8814.5	8867.5	8720.0	8321.8	8201.5	7644.5	6861.1	5956.0
12.5°	8134.2	8194.4	8290.3	8488.0	8807.3	9050.8	8914.7	8817.3	8274.6	7254.9	6096.4
15°	7824.9	7860.7	7913.7	8046.9	8390.6	8973.4	9325.7	9274.2	8868.9	7700.3	6253.9
17.5°	7730.4	7766.2	7783.4	7865.0	8109.9	8707.1	9487.6	9579.2	9395.9	8109.9	6412.9
20°	7824.9	7842.1	7842.1	7890.8	8082.7	8551.0	9480.4	9665.1	9828.4	8601.1	6561.8
22.5°	8072.7	8079.8	8069.8	8087.0	8230.2	8593.9	9413.1	9642.2	10177.8	9017.8	6677.8
25°	8475.1	8486.5	8420.7	8380.6	8485.1	8783.0	9450.3	9660.8	10451.3	9415.9	6755.1
27.5°	8931.9	8946.2	8866.0	8772.9	8821.6	9016.4	9596.4	9785.4	10656.1	9808.3	6803.8
30°	9491.8	9497.6	9363.0	9251.3	9219.8	9364.4	9845.6	10021.7	10911.0	10270.9	6876.9
32.5°	10064.7	10107.6	9934.4	9776.8	9723.8	9768.2	10213.6	10384.0	11214.6	10767.8	6994.3
35°	10843.7	10850.9	10643.2	10451.3	10276.6	10333.9	10684.8	10807.9	11634.2	11342.1	7160.4
37.5°	11816.1	11882.0	11595.6	11237.6	11022.7	10939.7	11254.7	11389.4	12222.8	12046.7	7411.0
40°	12895.9	12920.3	12675.4	12452.0	12059.6	11819.0	12036.7	12182.7	12948.9	12887.3	7701.7
42.5°	13574.7	13627.7	13646.3	13623.4	13328.4	12924.6	13007.6	13076.4	13808.1	13676.4	7999.6
45°	13803.9	13882.6	14149.0	14713.2	14744.7	14346.6	14153.3	14219.2	14744.7	14472.6	8284.6
47.5°	13424.4	13559.0	14050.2	15207.3	16073.7	16103.8	15520.9	15376.3	15598.3	15132.8	8490.8
50°	12443.4	12472.0	13223.9	14899.4	16696.7	17783.6	17180.7	16911.5	16408.8	15621.2	8632.6
52.5°	10925.4	10958.3	11588.4	13468.7	16312.9	18957.9	19122.6	18641.4	17232.3	16000.7	8725.7
55°	8109.9	8300.4	8993.5	10810.8	14494.1	18847.7	20666.4	20392.9	18227.6	16301.4	8871.8
57.5°	4986.5	4811.8	5633.8	7355.2	10901.0	17332.5	21143.3	21232.1	19323.1	16553.5	9116.6
60°	2294.2	2328.6	2668.0	3793.6	6644.9	13559.0	19914.6	20475.9	19928.9	16544.9	9178.2
62.5°	1581.0	1549.5	1463.6	1665.5	3030.3	8575.3	16821.3	17772.2	18714.5	16030.7	8933.3
65°	1413.5	1382.0	1215.8	1160.0	1392.0	3737.7	12228.6	13428.6	15757.2	14733.3	8323.3
67.5°	1320.4	1277.4	1105.6	996.7	993.9	1487.9	7210.5	8655.5	11687.2	12456.3	7212.0
70°	1223.0	1188.6	1018.2	897.9	846.4	935.2	3169.2	4148.7	7588.6	8976.3	5618.1
72.5°	1125.6	1085.5	932.3	803.4	736.1	700.3	1214.4	1579.6	4287.7	5381.8	3444.2
75°	983.8	963.8	833.5	727.5	654.5	565.7	770.5	879.3	2050.7	2471.8	1728.5
77.5°	860.7	839.2	740.4	635.8	582.9	459.7	547.1	597.2	865.0	1002.5	780.5
80°	630.1	651.6	624.4	561.4	519.8	360.9	368.0	409.6	514.1	568.5	476.9
82.5°	399.6	439.6	481.2	432.5	393.8	285.0	254.9	270.7	350.9	372.3	211.9
85°	167.6	170.4	279.3	263.5	224.8	169.0	153.2	161.8	187.6	196.2	98.8
87.5°	64.4	63.0	98.8	91.7	70.2	48.7	48.7	54.4	74.5	68.7	31.5
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°	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3	5496.3
2.5°	5515.0	5413.3	5211.4	4960.7	4777.4	4571.2	4389.3	4259.0	4210.3	4187.4	4144.4
5°	5510.7	5310.2	4892.0	4453.8	4101.5	3740.6	3435.6	3237.9	3220.8	3089.0	3076.1
7.5°	5512.1	5205.6	4539.7	3895.3	3358.2	2988.8	2736.7	2670.8	2592.1	2572.0	2582.0
10°	5516.4	5072.4	4161.6	3342.5	2822.6	2580.6	2486.1	2460.3	2463.2	2471.8	2473.2
12.5°	5522.1	4943.6	3769.2	2922.9	2521.9	2421.7	2411.6	2434.5	2458.9	2477.5	2481.8
15°	5529.3	4796.0	3386.9	2584.9	2371.5	2362.9	2395.9	2434.5	2468.9	2496.1	2500.4
17.5°	5520.7	4624.2	3066.1	2377.3	2288.5	2330.0	2384.4	2433.1	2464.6	2490.4	2493.3
20°	5500.6	4432.3	2756.8	2231.2	2236.9	2304.2	2362.9	2408.8	2443.1	2456.0	2466.0
22.5°	5423.3	4203.2	2487.5	2118.1	2175.3	2268.4	2338.6	2365.8	2327.1	2299.9	2307.1
25°	5291.5	3905.3	2236.9	2026.4	2119.5	2218.3	2289.9	2224.0	2192.5	2181.1	2186.8
27.5°	5126.9	3578.8	2047.9	1930.4	2047.9	2162.4	2142.4	2130.9	2116.6	2098.0	2102.3
30°	4949.3	3259.4	1887.5	1856.0	1970.5	2036.4	2045.0	2063.6	2047.9	2019.2	2030.7
32.5°	4784.6	2958.7	1765.8	1793.0	1916.1	1906.1	1970.5	1992.0	1919.0	1823.0	1827.3
35°	4644.2	2679.4	1674.1	1731.4	1823.0	1827.3	1891.8	1817.3	1738.5	1692.7	1695.6
37.5°	4538.3	2461.8	1614.0	1678.4	1704.2	1758.6	1724.2	1685.6	1675.5	1644.0	1645.5
40°	4475.3	2271.3	1575.3	1636.9	1632.6	1669.8	1559.5	1598.2	1612.5	1602.5	1603.9
42.5°	4412.2	2136.7	1535.2	1579.6	1578.2	1505.1	1480.8	1513.7	1550.9	1555.2	1552.4
45°	4362.1	2032.1	1493.7	1492.2	1520.9	1406.3	1399.1	1419.2	1472.2	1498.0	1496.5
47.5°	4306.3	1944.8	1430.7	1390.6	1399.1	1344.7	1333.3	1341.9	1406.3	1447.8	1459.3
50°	4236.1	1857.4	1351.9	1297.5	1261.7	1287.4	1290.3	1291.7	1356.2	1403.4	1413.5
52.5°	4180.3	1791.5	1261.7	1221.6	1178.6	1235.9	1257.4	1260.2	1298.9	1337.6	1344.7
55°	4213.2	1754.3	1172.9	1144.2	1105.6	1182.9	1224.4	1230.2	1238.8	1267.4	1271.7
57.5°	4312.0	1762.9	1101.3	1064.0	1035.4	1119.9	1190.1	1194.4	1188.6	1223.0	1228.7
60°	4342.1	1758.6	1048.3	975.2	958.1	1052.6	1139.9	1148.5	1147.1	1197.2	1207.2
62.5°	4216.1	1704.2	995.3	900.8	889.3	983.8	1069.8	1104.1	1111.3	1182.9	1195.8
65°	3919.6	1592.5	925.1	822.0	822.0	910.8	1002.5	1049.7	1069.8	1165.7	1180.0
67.5°	3528.7	1460.7	853.5	754.7	751.8	840.6	930.9	979.5	1011.1	1141.4	1150.0
70°	2928.6	1283.1	764.7	681.7	681.7	761.9	843.5	902.2	948.0	1095.5	1095.5
72.5°	2006.3	1066.9	657.3	598.6	600.0	674.5	757.6	823.4	877.9	1003.9	1006.8
75°	1268.8	833.5	539.9	509.8	515.6	585.7	671.6	740.4	849.2	992.4	996.7
77.5°	674.5	585.7	429.6	422.5	429.6	494.1	590.0	684.5	852.1	860.7	846.4
80°	436.8	415.3	339.4	325.1	327.9	398.1	525.6	650.2	684.5	693.1	661.6
82.5°	237.7	263.5	240.6	226.3	226.3	310.8	448.2	517.0	491.2	408.1	389.5
85°	101.7	123.2	124.6	108.8	104.5	191.9	300.7	282.1	262.1	250.6	247.8
87.5°	28.6	40.1	40.1	30.1	22.9	53.0	60.1	17.2	0.0	1.4	2.9
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)