

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: P459117

Luminaire Tested: **GALN-SA6A-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25851 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

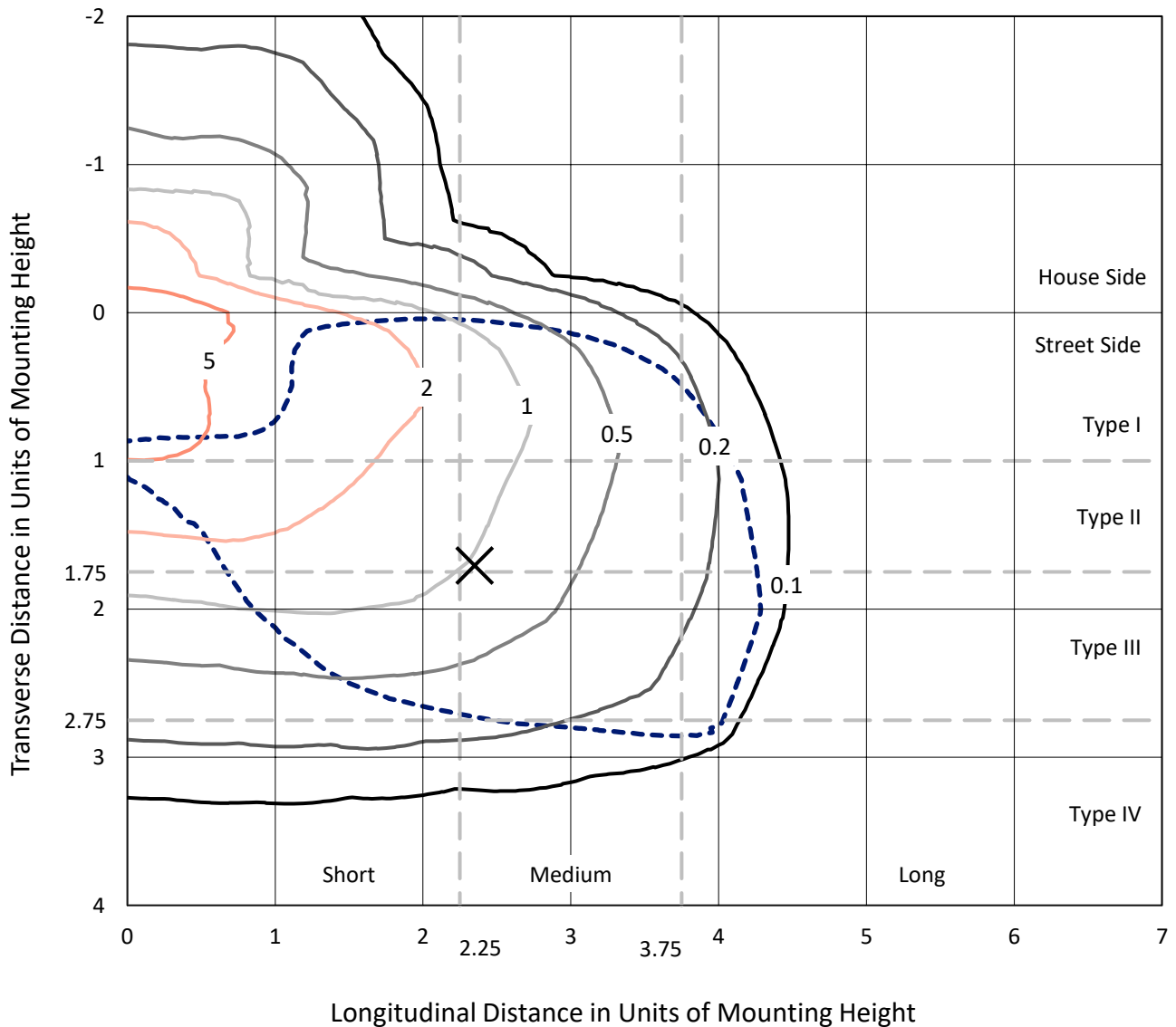
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

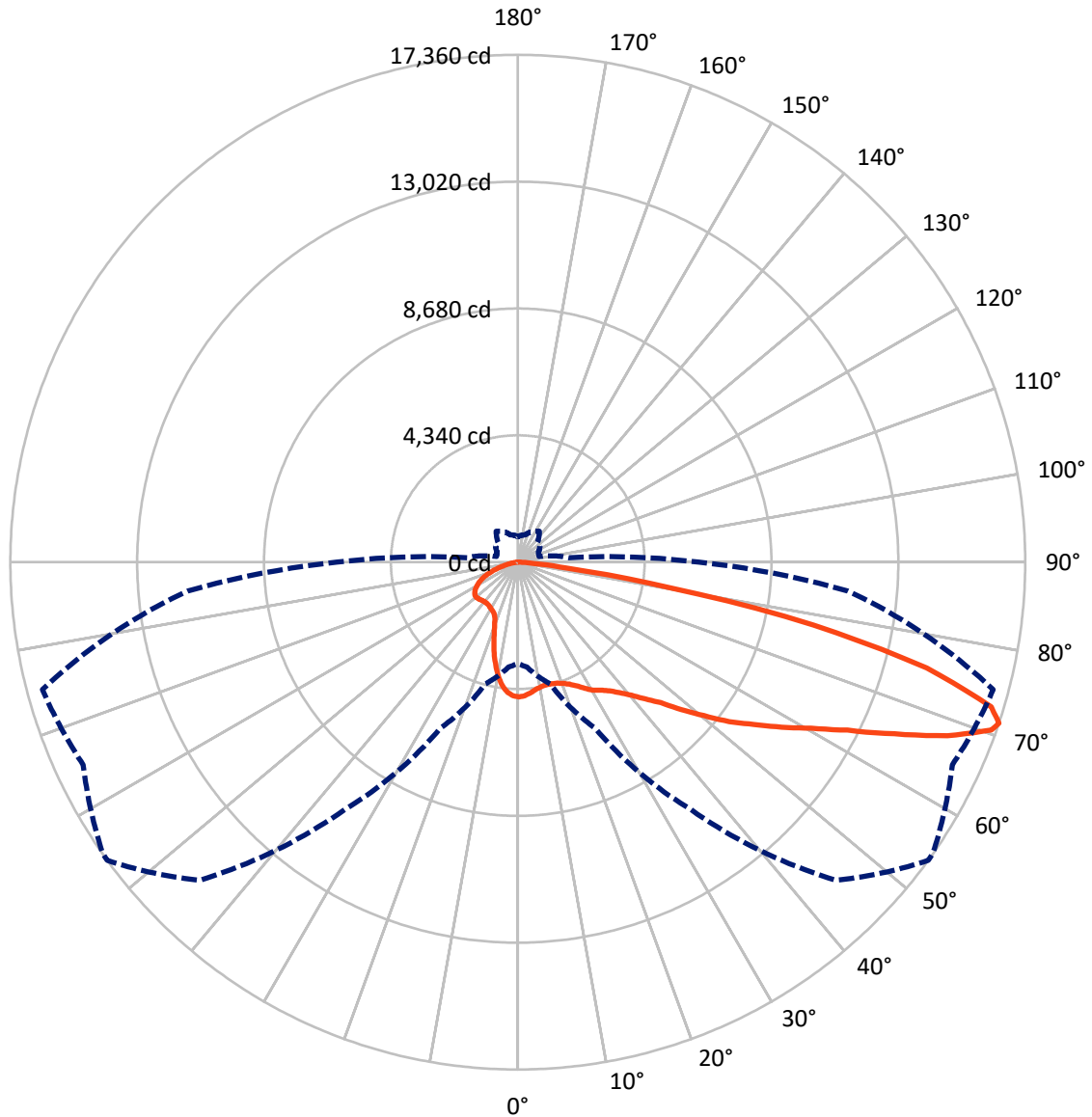
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4667.2	0.0	4667.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21183.8	0.0	21183.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	25851.0	0.0	25851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.0	1.6
10°-20°	1085.3	4.2
20°-30°	1807.1	7.0
30°-40°	2672.0	10.3
40°-50°	3763.7	14.6
50°-60°	5039.7	19.5
60°-70°	6352.2	24.6
70°-80°	4338.5	16.8
80°-90°	381.6	1.5
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°	25851.0	100.0
0°-180°	25851.0	100.0

Coefficient of Utilization



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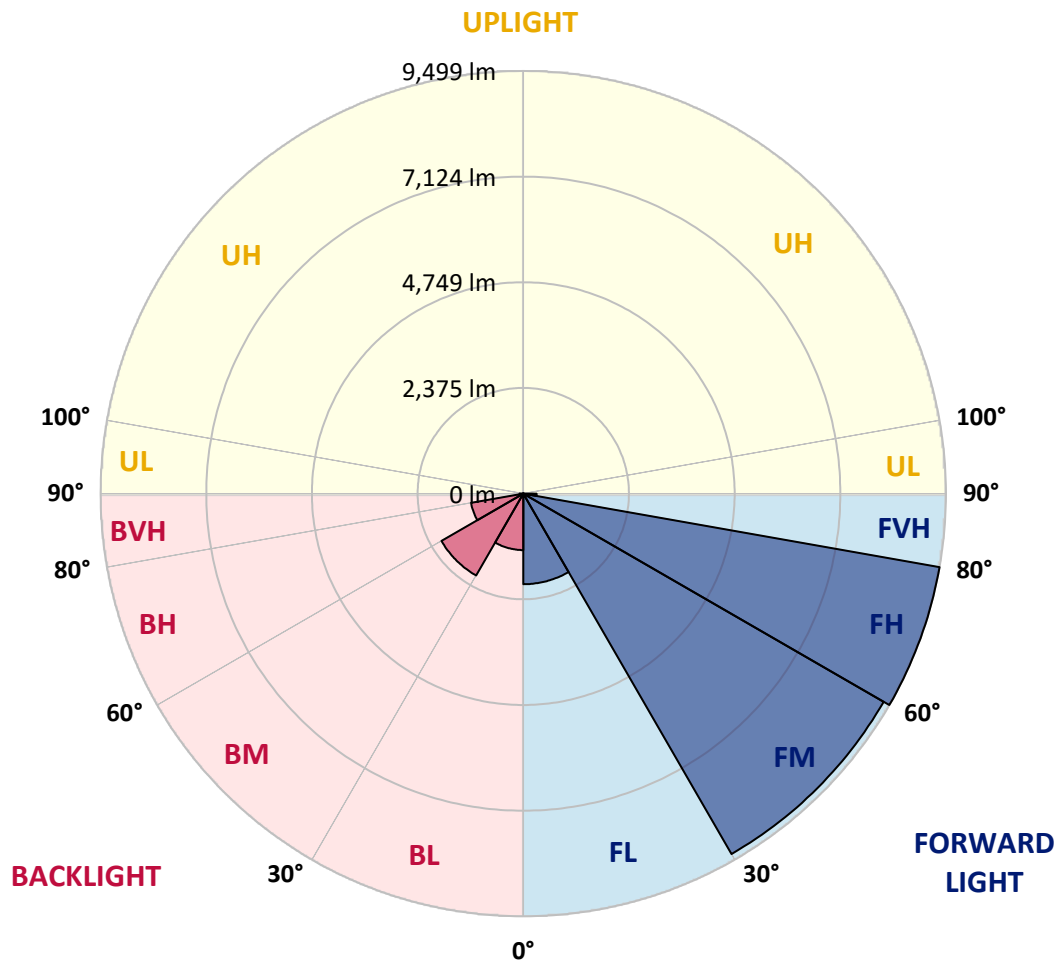
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2034.9	7.9			
FM	(30°-60°)	9352.0	36.2			
FH	(60°-80°)	9498.7	36.7			G4/12000
FVH	(80°-90°)	298.2	1.2			G3/500
BL	(0°-30°)	1268.5	4.9	B3/2500		
BM	(30°-60°)	2123.5	8.2	B2/2500		
BH	(60°-80°)	1192.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	83.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2
2.5°	4455.8	4476.8	4482.3	4496.3	4525.6	4549.4	4573.1	4570.3	4603.8	4617.8	4630.4
5°	4257.5	4263.1	4284.1	4312.0	4363.6	4429.3	4493.5	4494.9	4577.3	4642.9	4675.0
7.5°	4112.3	4130.5	4144.4	4173.7	4228.2	4299.4	4401.3	4409.7	4556.3	4686.2	4754.6
10°	4017.3	4038.3	4053.7	4090.0	4144.4	4224.0	4334.3	4349.7	4541.0	4754.6	4874.7
12.5°	3930.8	3951.7	3965.7	4013.2	4084.4	4182.1	4306.4	4324.5	4546.6	4834.2	5006.0
15°	3983.8	4000.6	3995.0	4009.0	4056.4	4168.2	4317.6	4335.7	4567.5	4911.0	5135.8
17.5°	4219.8	4233.8	4187.7	4134.6	4112.3	4194.7	4352.5	4372.0	4609.4	4990.6	5268.5
20°	4567.5	4605.2	4504.7	4386.0	4278.5	4289.6	4425.1	4446.0	4668.1	5070.2	5403.9
22.5°	5019.9	5047.9	4925.0	4729.5	4531.2	4429.3	4534.0	4546.6	4756.0	5173.5	5552.0
25°	5552.0	5568.7	5398.4	5147.0	4860.8	4668.1	4683.4	4705.8	4901.2	5290.8	5683.2
27.5°	6068.6	6121.7	5924.8	5617.6	5240.6	4919.4	4888.7	4902.6	5059.0	5356.5	5774.0
30°	6681.6	6677.4	6469.4	6113.3	5630.2	5193.1	5082.8	5080.0	5144.2	5388.6	5839.6
32.5°	7170.3	7227.6	7023.7	6635.5	6075.6	5476.6	5216.8	5211.2	5209.8	5444.4	5937.4
35°	7726.1	7734.5	7547.4	7156.4	6557.3	5832.6	5403.9	5376.0	5343.9	5564.5	6070.0
37.5°	8223.2	8262.3	8090.6	7652.1	7030.7	6202.7	5660.9	5642.7	5545.0	5772.6	6282.3
40°	8611.4	8640.7	8537.4	8119.9	7497.1	6602.0	5987.6	5954.1	5835.4	6113.3	6565.7
42.5°	8738.5	8798.5	8839.0	8633.7	8033.3	7075.4	6389.8	6347.9	6257.1	6630.0	6892.5
45°	8748.2	8843.2	9056.8	9066.6	8572.3	7642.3	6859.0	6829.6	6822.7	7291.8	7351.9
47.5°	8674.2	8770.6	9129.4	9323.5	9052.6	8214.8	7536.2	7490.1	7494.3	8110.1	7867.1
50°	8495.5	8610.0	9045.7	9488.3	9428.3	8809.7	8251.1	8235.8	8322.3	9044.3	8401.9
52.5°	8159.0	8297.2	8959.1	9591.6	9707.5	9322.1	9063.8	9020.5	9239.8	10058.0	8987.0
55°	7227.6	7435.7	8642.1	9648.9	9972.9	9812.3	9795.5	9873.7	10164.2	11164.0	9630.7
57.5°	6741.7	6898.1	7953.7	9658.7	10308.0	10382.0	10650.1	10669.6	11177.9	12338.3	10358.3
60°	6476.4	6614.6	7576.7	9594.4	10775.8	11087.2	11524.2	11594.0	12167.9	13610.4	11112.3
62.5°	6244.6	6363.2	7350.5	9372.4	11303.6	12133.0	12656.7	12690.2	13292.0	15015.1	11856.6
65°	5698.6	5834.0	6895.3	9150.4	11758.8	13440.0	14159.2	14120.1	14488.7	16227.2	12322.9
67.5°	4962.7	5134.4	6044.9	8383.8	11983.6	14868.5	15851.6	15802.7	15670.0	17021.7	12457.0
70°	4022.9	4115.1	4957.1	7058.6	11085.8	15618.4	17187.9	17136.2	16401.7	17126.4	11823.0
71°	3461.6	3605.4	4316.2	6269.7	10338.7	15389.4	17359.6	17345.7	16403.1	16837.4	11345.5
72.5°	2702.0	2789.9	3418.3	4858.0	8787.3	14087.9	16935.1	16988.2	16047.1	16034.5	10361.0
75°	1709.2	1748.3	2144.8	2859.8	4821.7	9977.0	14456.6	14600.4	14248.5	13124.5	7705.2
77.5°	992.8	1043.1	1284.7	1685.4	2083.4	5415.1	10344.3	10500.7	9900.2	7226.2	3154.4
80°	578.1	634.0	846.2	978.9	956.5	2009.4	5267.1	5533.8	4286.8	1825.1	885.3
82.5°	321.2	358.9	594.9	596.2	509.7	656.3	1657.5	1734.3	1223.2	735.9	361.7
85°	233.2	263.9	384.0	347.7	244.4	282.1	576.7	604.6	494.3	310.0	117.3
87.5°	82.4	117.3	210.9	167.6	67.0	58.6	166.2	135.4	125.7	86.6	26.5
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°	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2	4612.2
2.5°	4637.3	4640.1	4626.2	4601.0	4575.9	4543.8	4507.5	4479.5	4467.0	4465.6	4464.2
5°	4687.6	4694.6	4641.5	4563.3	4476.8	4370.6	4279.9	4176.5	4150.0	4108.1	4120.7
7.5°	4768.6	4764.4	4659.7	4493.5	4291.0	4066.2	3876.3	3766.0	3651.5	3619.4	3620.8
10°	4884.5	4858.0	4659.7	4351.1	4013.2	3679.4	3414.1	3246.6	3155.8	3080.4	3052.5
12.5°	5007.4	4940.3	4615.0	4151.4	3655.7	3246.6	2961.7	2735.5	2676.8	2615.4	2616.8
15°	5124.7	5013.0	4527.0	3870.7	3270.3	2784.4	2507.9	2372.4	2354.3	2361.3	2359.9
17.5°	5230.8	5064.6	4393.0	3557.9	2820.7	2387.8	2241.2	2250.9	2299.8	2334.7	2338.9
20°	5338.3	5095.3	4193.3	3139.0	2396.2	2147.6	2153.2	2230.0	2304.0	2351.5	2358.5
22.5°	5440.2	5109.3	3958.7	2734.1	2089.0	2045.7	2128.1	2210.4	2283.1	2329.1	2336.1
25°	5507.3	5077.2	3626.4	2311.0	1938.2	2009.4	2095.9	2165.8	2227.2	2274.7	2285.9
27.5°	5525.4	4973.9	3214.4	1968.9	1868.3	1974.5	2054.1	2105.7	2153.2	2197.9	2206.3
30°	5515.7	4821.7	2762.0	1767.8	1827.8	1934.0	1995.4	2033.1	2090.4	2125.3	2132.3
32.5°	5500.3	4644.3	2290.0	1660.3	1794.3	1896.3	1932.6	1966.1	1964.7	1950.7	1960.5
35°	5505.9	4432.1	1907.4	1596.0	1765.0	1868.3	1899.1	1857.2	1737.1	1731.5	1725.9
37.5°	5535.2	4222.6	1629.6	1551.4	1749.6	1864.2	1880.9	1688.2	1582.1	1533.2	1520.6
40°	5610.6	3978.3	1446.6	1517.9	1748.3	1896.3	1798.5	1603.0	1399.2	1304.2	1297.2
42.5°	5711.1	3738.1	1334.9	1496.9	1765.0	1945.1	1765.0	1482.9	1260.9	1205.1	1196.7
45°	5860.6	3463.0	1273.5	1487.1	1790.1	1963.3	1753.8	1395.0	1205.1	1160.4	1160.4
47.5°	6029.5	3200.5	1240.0	1480.1	1822.3	1950.7	1654.7	1367.0	1178.5	1184.1	1210.7
50°	6197.1	2972.9	1214.8	1464.8	1850.2	1943.7	1614.2	1365.6	1185.5	1256.7	1304.2
52.5°	6391.2	2812.3	1184.1	1439.7	1850.2	1899.1	1601.6	1393.6	1205.1	1226.0	1247.0
55°	6625.8	2762.0	1145.0	1385.2	1816.7	1787.4	1594.7	1434.1	1219.0	1170.2	1178.5
57.5°	6935.8	2843.0	1107.3	1316.8	1739.9	1671.5	1591.9	1445.2	1186.9	1146.4	1138.0
60°	7296.0	3003.6	1096.1	1247.0	1635.1	1572.3	1575.1	1413.1	1142.2	1100.3	1107.3
62.5°	7548.8	3099.9	1089.2	1193.9	1520.6	1463.4	1534.6	1374.0	1122.7	1086.4	1093.4
65°	7548.8	2982.6	1024.9	1112.9	1372.6	1332.1	1485.7	1325.2	1097.5	1055.7	1048.7
67.5°	7262.5	2640.5	927.2	991.4	1209.3	1182.7	1417.3	1266.5	1059.8	1027.7	1011.0
70°	6516.8	2002.4	804.3	849.0	1002.6	1026.3	1329.3	1186.9	997.0	957.9	932.8
71°	6188.7	1744.1	752.6	776.4	923.0	957.9	1287.5	1153.4	969.1	913.2	868.5
72.5°	5556.1	1469.0	674.4	684.2	788.9	851.8	1199.5	1089.2	916.0	836.4	786.2
75°	4221.2	1072.4	543.2	537.6	583.7	675.8	1015.2	970.5	802.9	695.4	666.1
77.5°	1823.7	583.7	406.3	410.5	396.6	512.5	798.7	833.6	688.4	565.5	539.0
80°	553.0	336.5	277.9	283.5	265.3	343.5	562.7	653.5	553.0	439.9	403.6
82.5°	283.5	201.1	189.9	187.1	169.0	194.1	340.7	446.8	395.2	275.1	243.0
85°	122.9	107.5	93.6	90.8	79.6	69.8	121.5	223.4	209.5	153.6	146.6
87.5°	30.7	27.9	18.2	16.8	9.8	1.4	0.0	0.0	0.0	0.0	0.0
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)