

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: P459187

Luminaire Tested: **GALN-SA6D-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459187
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 42656 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

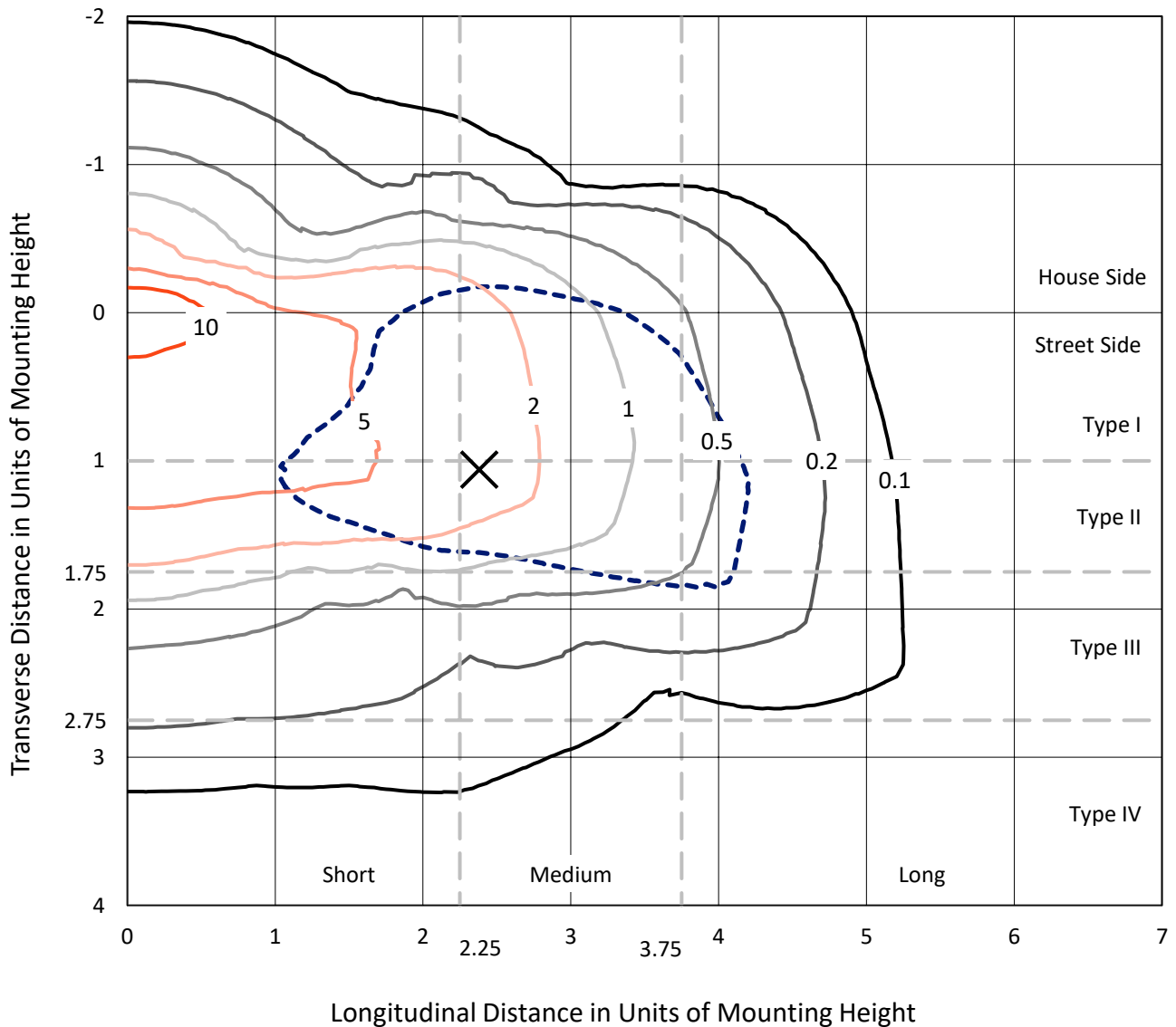
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

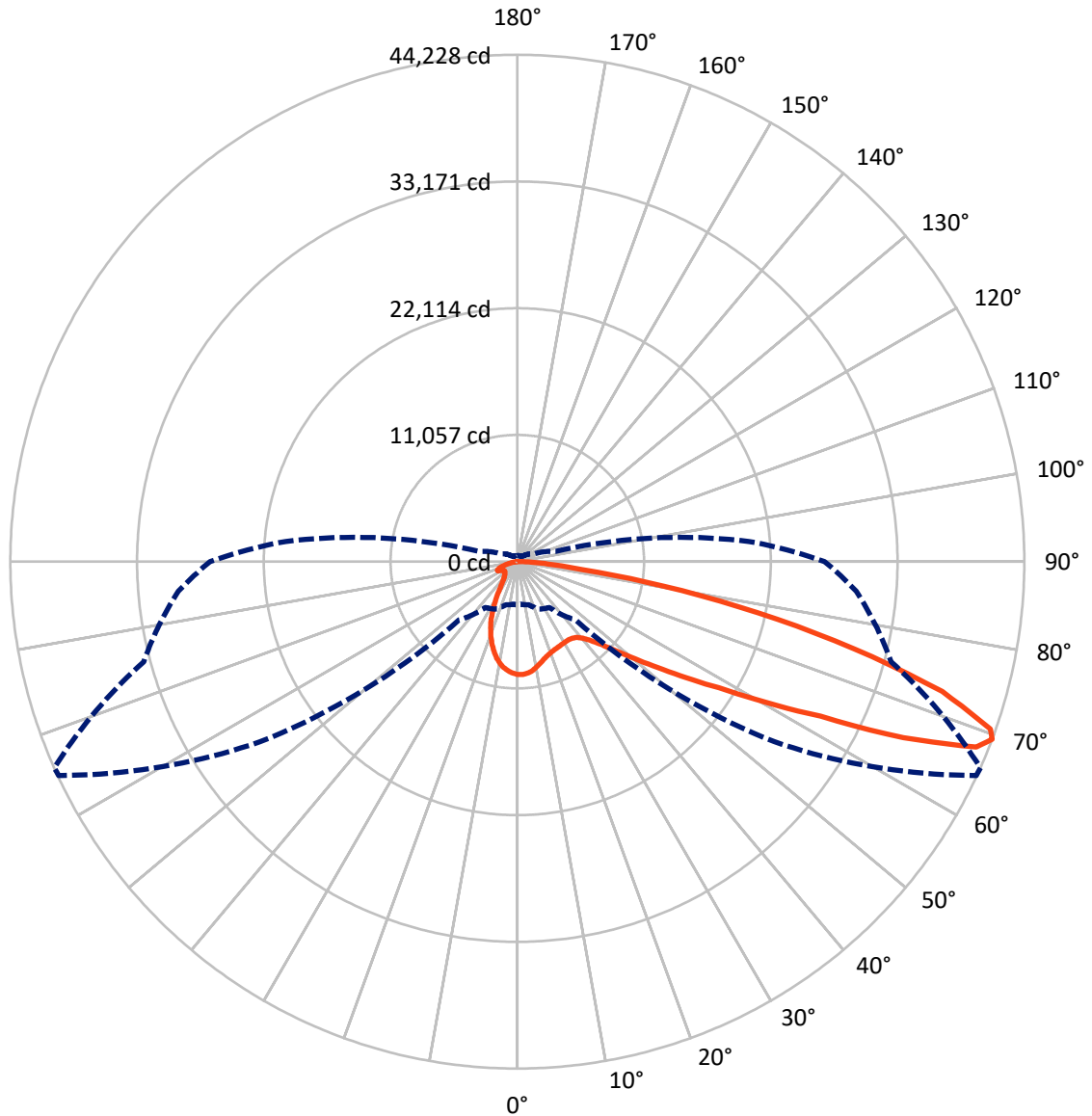
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	8022.0	0.0	8022.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34634.0	0.0	34634.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	42656.0	0.0	42656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.4	2.0
10°-20°	2028.9	4.8
20°-30°	2762.1	6.5
30°-40°	3711.7	8.7
40°-50°	5542.2	13.0
50°-60°	8815.8	20.7
60°-70°	10843.0	25.4
70°-80°	7054.9	16.5
80°-90°	1041.8	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°	42656.0	100.0
0°-180°	42656.0	100.0

Coefficient of Utilization



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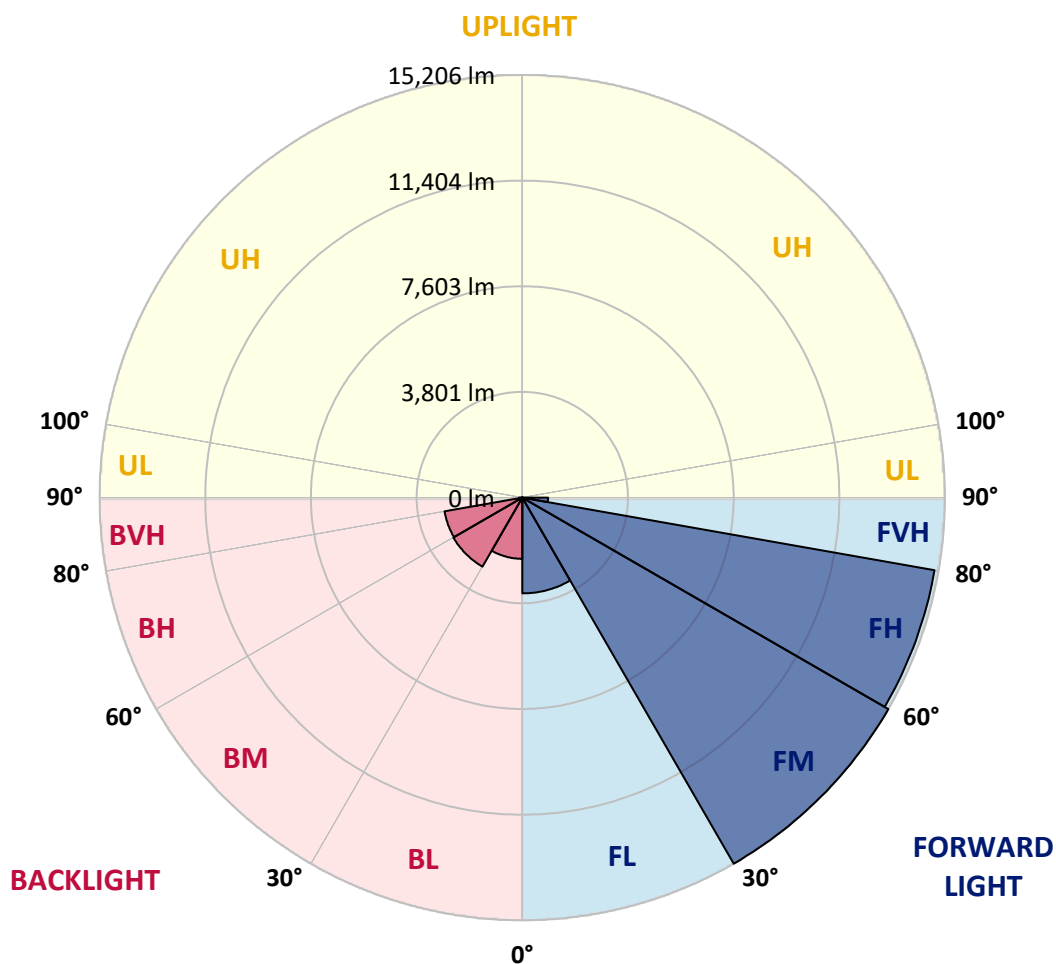
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3444.4	8.1			
FM	(30°-60°)	15205.6	35.6			
FH	(60°-80°)	15057.8	35.3			G5
FVH	(80°-90°)	926.2	2.2			G5
BL	(0°-30°)	2202.1	5.2	B3/2500		
BM	(30°-60°)	2864.2	6.7	B3/5000		
BH	(60°-80°)	2840.1	6.7	B4/5000		G4/5000
BVH	(80°-90°)	115.6	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°	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5
2.5°	9505.6	9543.4	9585.9	9633.1	9722.9	9772.5	9807.9	9848.1	9852.8	9874.1	9857.5
5°	8804.0	8848.9	8912.7	9002.4	9137.1	9347.3	9564.6	9741.8	9763.1	9862.3	9890.6
7.5°	8218.2	8244.1	8296.1	8440.2	8631.6	8865.4	9181.9	9541.0	9593.0	9829.2	9911.9
10°	7741.0	7767.0	7828.4	7977.2	8166.2	8459.1	8806.4	9278.8	9321.3	9727.6	9916.6
12.5°	7384.3	7407.9	7474.1	7620.5	7837.8	8111.9	8494.5	8995.3	9056.7	9593.0	9871.7
15°	7112.6	7157.5	7211.9	7332.3	7561.5	7826.0	8196.9	8735.5	8785.1	9451.2	9841.0
17.5°	6996.9	7018.2	7055.9	7167.0	7334.7	7594.5	7967.8	8532.3	8591.4	9352.0	9833.9
20°	7001.6	7022.9	7030.0	7091.4	7211.9	7436.3	7804.8	8371.7	8442.6	9264.6	9845.7
22.5°	7162.2	7164.6	7138.6	7117.4	7164.6	7351.2	7689.0	8251.2	8333.9	9226.8	9855.2
25°	7410.3	7452.8	7415.0	7315.8	7228.4	7318.2	7644.1	8185.1	8263.0	9172.5	9843.4
27.5°	7811.9	7818.9	7788.2	7653.6	7426.8	7360.7	7625.2	8135.5	8201.6	9132.3	9784.3
30°	8350.4	8329.2	8300.8	8152.0	7795.3	7523.7	7665.4	8090.6	8159.1	9073.3	9713.4
32.5°	8896.1	8962.3	8936.3	8761.5	8298.5	7840.2	7795.3	8085.9	8142.6	9028.4	9635.5
35°	9474.9	9505.6	9628.4	9538.6	9063.8	8352.8	8038.6	8159.1	8204.0	9030.8	9581.2
37.5°	9928.4	10011.1	10299.3	10377.2	9930.8	9030.8	8433.1	8367.0	8385.9	9146.5	9602.4
40°	10476.4	10618.2	10989.0	11307.9	11015.0	9911.9	9104.0	8752.0	8775.6	9425.3	9741.8
42.5°	11170.9	11270.1	11768.6	12200.9	12153.6	11076.4	9916.6	9382.7	9394.5	9980.4	10131.6
45°	11983.5	12125.3	12685.1	13334.7	13445.8	12394.6	11090.6	10337.1	10330.0	10842.6	10859.1
47.5°	13022.9	13110.3	13665.4	14374.1	14822.9	14050.5	12515.0	11707.2	11631.6	12099.3	11964.6
50°	13979.6	14116.6	14537.1	15311.9	16429.2	15989.9	14388.3	13483.5	13306.4	13743.4	13516.6
52.5°	14381.2	14525.3	14879.6	15841.0	17806.4	18498.5	16767.0	15602.5	15307.2	15642.6	15559.9
55°	13684.3	13871.0	14201.7	15371.0	18411.1	21392.3	19974.9	18052.1	17837.1	17693.0	17716.6
57.5°	11811.1	11988.3	12434.7	13724.5	17688.3	23492.3	24555.3	21200.9	20740.3	20076.5	20189.9
60°	8990.6	9101.6	9333.1	10762.3	15545.8	24037.9	29756.9	25181.3	24888.3	22450.5	22530.9
62.5°	6385.1	6510.3	6670.9	7384.3	11381.2	22500.1	33829.3	30739.6	29693.1	24909.6	24831.7
65°	5185.1	5100.0	5293.7	5626.8	6678.0	17437.9	34745.9	38454.6	37013.6	28148.2	27066.3
67.5°	4263.8	4174.0	4365.4	4958.3	5078.8	10122.1	31443.5	43462.5	43174.3	31670.3	29336.4
69°	3774.8	3727.6	3895.3	4570.9	4875.6	7188.2	27392.3	44159.3	44227.8	33746.7	29686.0
70°	3401.6	3420.5	3583.5	4374.8	4783.5	5926.8	23412.0	43197.9	43779.0	34783.7	29308.1
72.5°	2504.0	2544.1	2770.9	3623.6	4696.1	5029.2	13932.4	37731.7	38759.3	34845.1	26811.2
75°	1750.4	1731.5	1932.3	2728.4	4436.2	4984.3	8182.7	29180.5	30345.1	30118.3	22528.5
77.5°	1145.7	1176.4	1337.0	1927.6	3732.3	4946.5	5333.9	20702.5	21458.4	20142.6	13325.3
80°	807.9	805.5	895.3	1315.8	2768.5	4752.8	4367.7	13048.9	12857.6	7915.8	3952.0
82.5°	463.0	496.1	600.0	926.0	1852.0	4183.5	4018.1	6241.0	5697.7	2255.9	1334.7
85°	257.5	269.3	356.7	559.8	1081.9	3151.2	3507.9	2839.4	2678.8	942.5	574.0
87.5°	82.7	89.8	148.8	283.5	491.3	1488.2	1986.6	1311.0	1209.5	340.2	231.5
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°	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5
2.5°	9864.6	9893.0	9817.4	9744.2	9678.0	9585.9	9503.2	9434.7	9387.5	9380.4	9356.8
5°	9897.7	9900.1	9756.0	9562.3	9373.3	9165.4	8950.4	8796.9	8652.8	8572.5	8532.3
7.5°	9921.3	9900.1	9640.2	9326.0	8962.3	8584.3	8206.4	7904.0	7670.1	7578.0	7613.4
10°	9911.9	9845.7	9465.4	8962.3	8433.1	7868.6	7325.2	6900.0	6510.3	6309.5	6314.2
12.5°	9859.9	9751.2	9205.6	8553.6	7776.4	7020.5	6189.0	5615.0	5163.8	4896.9	4814.2
15°	9815.0	9626.0	8900.8	7998.5	7032.3	5952.8	4939.4	4230.7	3852.8	3642.5	3640.2
17.5°	9767.8	9505.6	8567.8	7410.3	6177.2	4788.2	3725.2	3184.3	3007.1	3028.4	2992.9
20°	9718.2	9363.8	8220.5	6755.9	5135.5	3571.7	2789.8	2570.1	2619.7	2716.6	2730.7
22.5°	9661.5	9212.7	7847.3	6035.5	4039.4	2688.2	2263.0	2229.9	2357.5	2508.7	2529.9
25°	9574.1	9023.7	7377.2	5281.9	3115.8	2166.2	1981.9	2005.5	2130.7	2258.3	2272.5
27.5°	9451.2	8789.8	6902.4	4341.8	2341.0	1859.1	1811.8	1842.5	1903.9	1981.9	2000.8
30°	9285.9	8525.3	6356.7	3529.2	1875.6	1705.5	1686.6	1703.2	1738.6	1771.7	1781.1
32.5°	9120.5	8270.1	5806.3	2702.4	1672.5	1603.9	1585.0	1585.0	1585.0	1589.8	1592.1
35°	8967.0	8029.2	5215.8	2104.7	1566.2	1523.6	1497.6	1469.3	1464.6	1448.0	1448.0
37.5°	8881.9	7809.5	4587.4	1762.2	1488.2	1457.5	1422.1	1374.8	1348.8	1351.2	1346.5
40°	8898.5	7665.4	4015.8	1568.5	1424.4	1391.3	1337.0	1282.7	1266.1	1266.1	1261.4
42.5°	9085.1	7618.2	3467.7	1466.9	1363.0	1325.2	1256.7	1207.1	1197.6	1195.3	1200.0
45°	9515.0	7733.9	2976.4	1400.8	1311.0	1254.3	1185.8	1141.0	1131.5	1131.5	1129.1
47.5°	10353.6	8109.5	2624.4	1358.3	1273.2	1200.0	1129.1	1084.3	1067.7	1063.0	1063.0
50°	11657.6	8924.5	2362.2	1320.5	1226.0	1150.4	1077.2	1025.2	999.2	996.9	994.5
52.5°	13469.4	10195.3	2260.6	1292.1	1174.0	1098.4	1018.1	968.5	935.4	928.4	923.6
55°	15588.3	11969.4	2400.0	1270.9	1119.7	1039.4	956.7	904.7	874.0	859.8	857.5
57.5°	18042.6	14100.1	2929.2	1242.5	1070.1	975.6	895.3	843.3	810.2	793.7	789.0
60°	20246.6	16289.9	3852.8	1226.0	1027.6	907.1	824.4	777.2	746.5	729.9	727.6
62.5°	22667.9	18378.1	4955.9	1270.9	1008.7	841.0	758.3	715.8	689.8	673.2	673.2
65°	25254.5	20468.6	5685.9	1422.1	1037.0	789.0	687.4	652.0	628.4	616.5	614.2
67.5°	26997.8	21191.5	4684.3	1578.0	1107.9	732.3	618.9	590.6	576.4	564.6	564.6
69°	26808.8	20277.3	3455.9	1618.1	1129.1	703.9	581.1	559.8	540.9	536.2	531.5
70°	26211.2	19235.6	2896.1	1592.1	1112.6	678.0	557.5	531.5	515.0	510.2	507.9
72.5°	23345.8	16682.0	2156.7	1384.3	947.3	588.2	493.7	470.1	455.9	448.8	448.8
75°	19396.2	13634.7	1684.3	1100.8	741.7	496.1	422.8	403.9	392.1	387.4	385.0
77.5°	10870.9	7613.4	1209.5	862.2	562.2	401.6	354.3	337.8	326.0	321.3	321.3
80°	3028.4	2175.6	711.0	569.3	382.7	304.7	281.1	269.3	252.8	240.9	248.0
82.5°	1141.0	942.5	406.3	342.5	243.3	203.2	196.1	186.6	179.5	163.0	163.0
85°	555.1	458.3	259.8	181.9	134.6	106.3	101.6	96.9	92.1	80.3	82.7
87.5°	191.3	203.2	113.4	66.1	40.2	26.0	21.3	11.8	11.8	11.8	11.8
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)