

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: P459361

Luminaire Tested: **GALN-SA8B-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459361
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-SA8B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 42725 lumens
Efficiency: N/A
Efficacy: 131.5 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

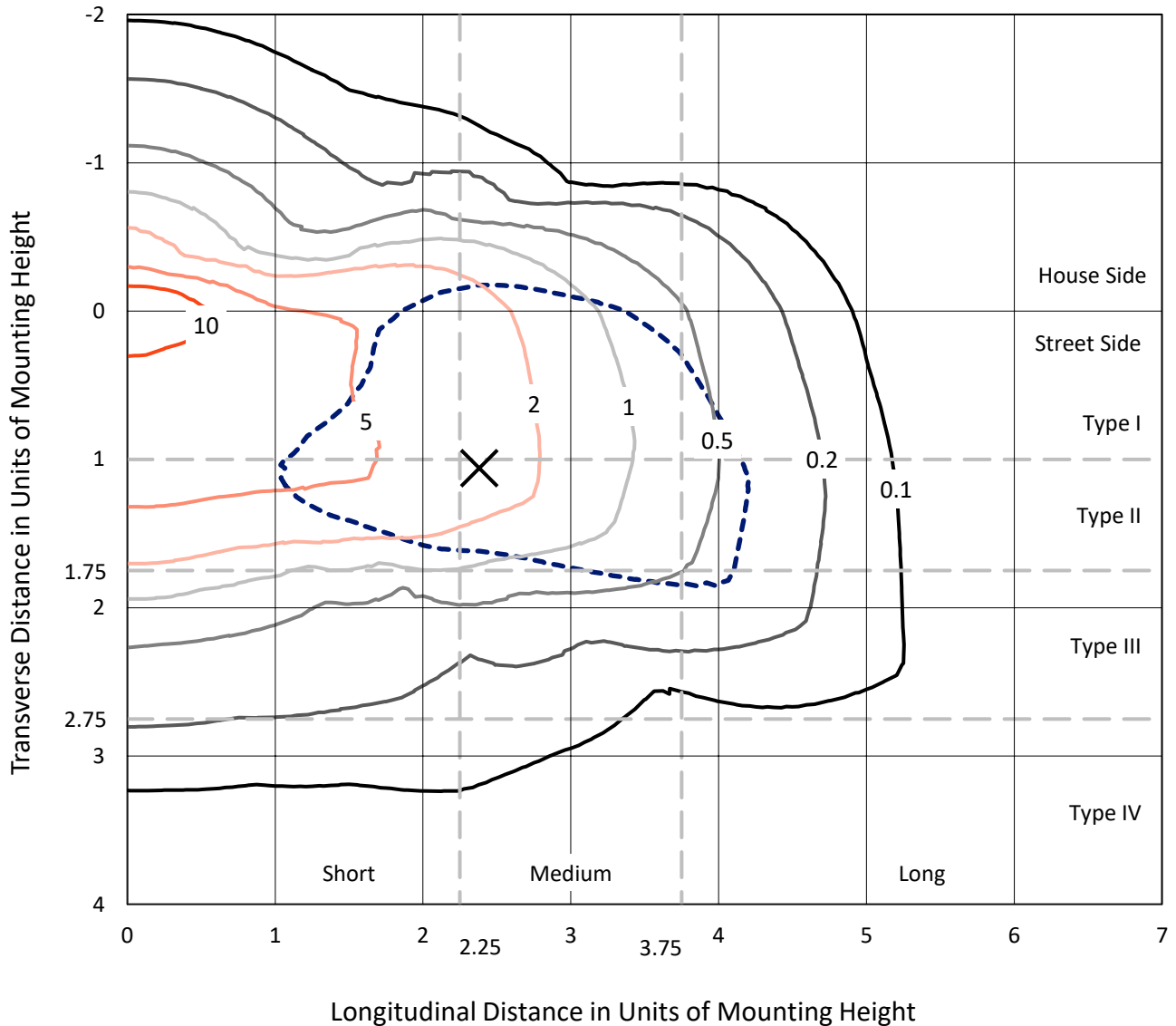
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

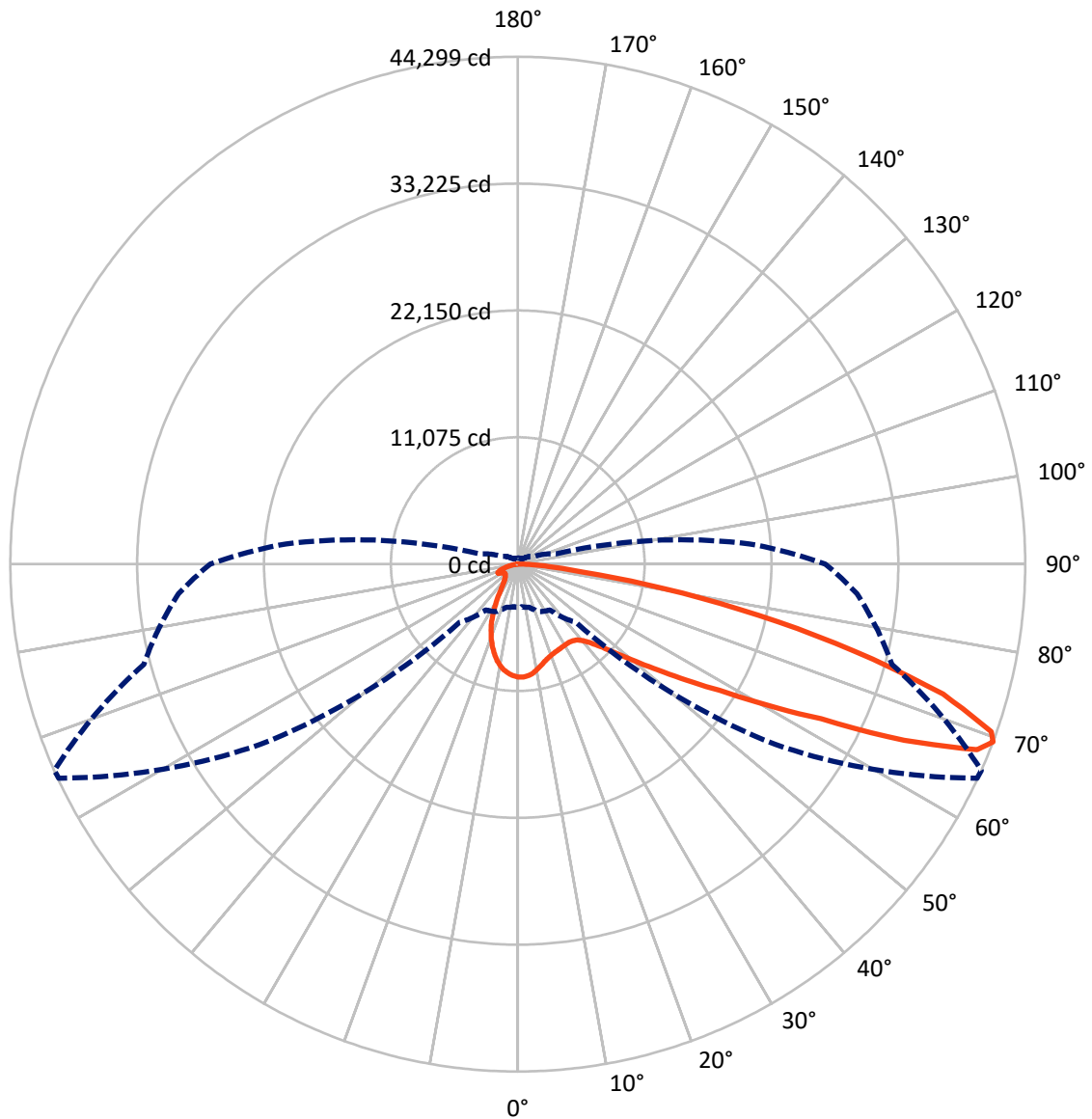
× Max cd
 - - - 1/2 Max cd



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	8035.0	0.0	8035.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34690.0	0.0	34690.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	42725.0	0.0	42725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.8	2.0
10°-20°	2032.2	4.8
20°-30°	2766.6	6.5
30°-40°	3717.7	8.7
40°-50°	5551.2	13.0
50°-60°	8830.1	20.7
60°-70°	10860.5	25.4
70°-80°	7066.3	16.5
80°-90°	1043.5	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°	42725.0	100.0
0°-180°	42725.0	100.0

Coefficient of Utilization



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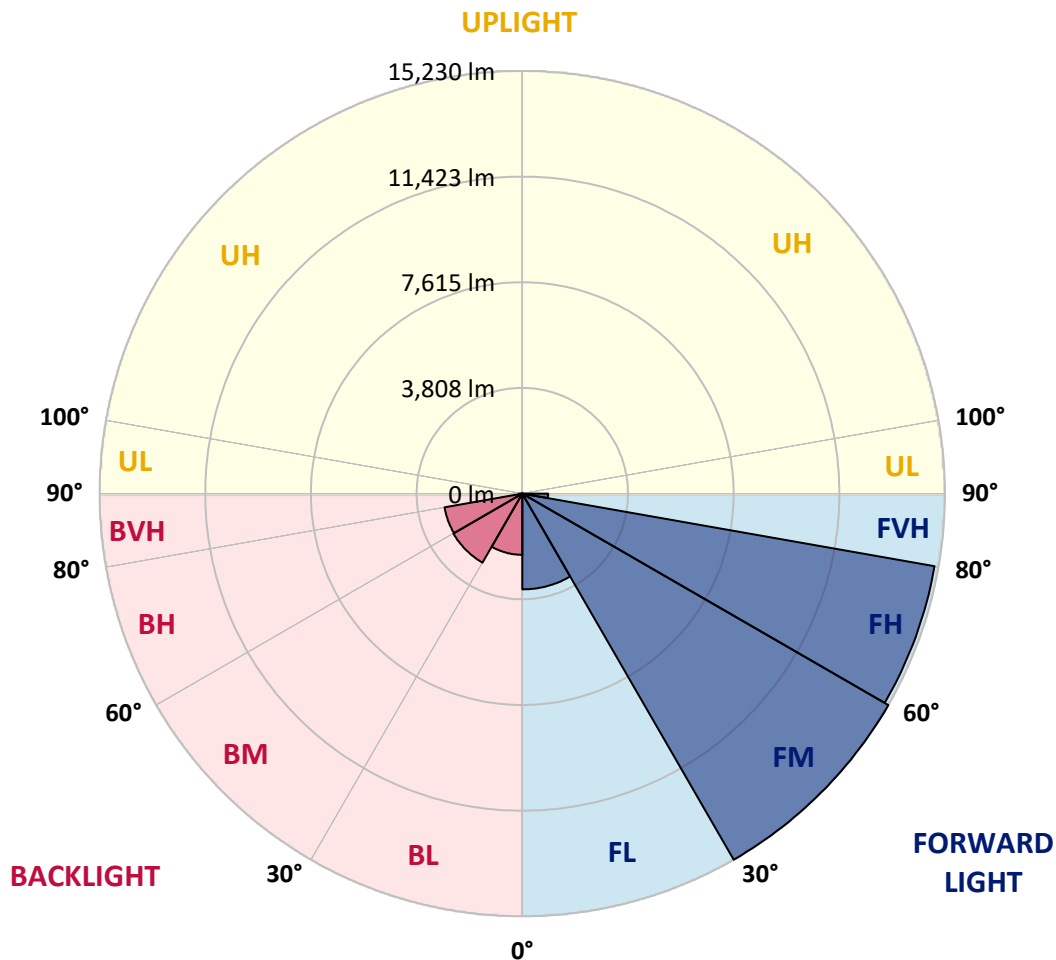
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3450.0	8.1			
FM	(30°-60°)	15230.2	35.6			
FH	(60°-80°)	15082.1	35.3			G5
FVH	(80°-90°)	927.7	2.2			G5
BL	(0°-30°)	2205.6	5.2	B3/2500		
BM	(30°-60°)	2868.8	6.7	B3/5000		
BH	(60°-80°)	2844.7	6.7	B4/5000		G4/5000
BVH	(80°-90°)	115.8	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°	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4
2.5°	9520.9	9558.8	9601.4	9648.7	9738.6	9788.3	9823.8	9864.0	9868.8	9890.1	9873.5
5°	8818.2	8863.2	8927.1	9017.0	9151.8	9362.4	9580.1	9757.6	9778.8	9878.2	9906.6
7.5°	8231.5	8257.5	8309.5	8453.9	8645.5	8879.8	9196.8	9556.4	9608.5	9845.1	9927.9
10°	7753.5	7779.5	7841.1	7990.1	8179.4	8472.8	8820.6	9293.8	9336.4	9743.4	9932.6
12.5°	7396.2	7419.9	7486.2	7632.8	7850.5	8125.0	8508.3	9009.9	9071.4	9608.5	9887.7
15°	7124.1	7169.1	7223.5	7344.2	7573.7	7838.7	8210.2	8749.6	8799.3	9466.5	9856.9
17.5°	7008.2	7029.5	7067.4	7178.6	7346.6	7606.8	7980.7	8546.1	8605.3	9367.2	9849.8
20°	7012.9	7034.2	7041.3	7102.9	7223.5	7448.3	7817.4	8385.2	8456.2	9279.6	9861.7
22.5°	7173.8	7176.2	7150.2	7128.9	7176.2	7363.1	7701.5	8264.6	8347.4	9241.8	9871.1
25°	7422.3	7464.9	7427.0	7327.6	7240.1	7330.0	7656.5	8198.3	8276.4	9187.3	9859.3
27.5°	7824.5	7831.6	7800.8	7666.0	7438.8	7372.6	7637.6	8148.6	8214.9	9147.1	9800.1
30°	8364.0	8342.7	8314.3	8165.2	7807.9	7535.8	7677.8	8103.7	8172.3	9088.0	9729.2
32.5°	8910.5	8976.8	8950.7	8775.6	8311.9	7852.9	7807.9	8099.0	8155.7	9043.0	9651.1
35°	9490.2	9520.9	9644.0	9554.1	9078.5	8366.3	8051.6	8172.3	8217.3	9045.4	9596.7
37.5°	9944.5	10027.3	10315.9	10394.0	9946.8	9045.4	8446.8	8380.5	8399.4	9161.3	9618.0
40°	10493.4	10635.4	11006.8	11326.2	11032.8	9927.9	9118.7	8766.2	8789.8	9440.5	9757.6
42.5°	11189.0	11288.4	11787.6	12220.6	12173.3	11094.4	9932.6	9397.9	9409.7	9996.5	10147.9
45°	12002.9	12144.9	12705.6	13356.3	13467.5	12414.6	11108.6	10353.8	10346.7	10860.1	10876.7
47.5°	13044.0	13131.5	13687.5	14397.4	14846.9	14073.2	12535.3	11726.1	11650.4	12118.9	11984.0
50°	14002.2	14139.5	14560.6	15336.7	16455.8	16015.7	14411.6	13505.4	13327.9	13765.6	13538.5
52.5°	14404.5	14548.8	14903.7	15866.7	17835.2	18528.5	16794.2	15627.7	15331.9	15667.9	15585.1
55°	13706.5	13893.4	14224.6	15395.8	18440.9	21426.9	20007.2	18081.3	17866.0	17721.6	17745.3
57.5°	11830.2	12007.7	12454.8	13746.7	17716.9	23530.3	24595.0	21235.2	20773.8	20109.0	20222.5
60°	9005.2	9116.4	9348.2	10779.7	15570.9	24076.8	29805.0	25222.0	24928.6	22486.9	22567.3
62.5°	6395.4	6520.8	6681.7	7396.2	11399.6	22536.5	33884.1	30789.3	29741.1	24949.9	24871.8
65°	5193.5	5108.3	5302.3	5635.9	6688.8	17466.1	34802.1	38516.8	37073.5	28193.7	27110.1
67.5°	4270.7	4180.8	4372.4	4966.3	5087.0	10138.5	31494.4	43532.8	43244.1	31721.5	29383.9
69°	3780.9	3733.6	3901.6	4578.3	4883.5	7199.9	27436.6	44230.8	44299.4	33801.3	29734.0
70°	3407.1	3426.0	3589.3	4381.9	4791.2	5936.4	23449.8	43267.8	43849.8	34839.9	29355.5
72.5°	2508.0	2548.2	2775.4	3629.5	4703.7	5037.3	13954.9	37792.8	38822.0	34901.5	26854.6
75°	1753.2	1734.3	1935.4	2732.8	4443.4	4992.3	8196.0	29227.7	30394.2	30167.0	22564.9
77.5°	1147.5	1178.3	1339.2	1930.7	3738.3	4954.5	5342.5	20736.0	21493.1	20175.2	13346.8
80°	809.2	806.8	896.7	1317.9	2773.0	4760.5	4374.8	13070.0	12878.4	7928.6	3958.4
82.5°	463.7	496.9	601.0	927.5	1855.0	4190.3	4024.6	6251.1	5706.9	2259.6	1336.8
85°	257.9	269.7	357.3	560.8	1083.6	3156.3	3513.6	2844.0	2683.1	944.1	574.9
87.5°	82.8	89.9	149.1	283.9	492.1	1490.6	1989.8	1313.2	1211.4	340.7	231.9
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°	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4
2.5°	9880.6	9909.0	9833.3	9759.9	9693.7	9601.4	9518.6	9450.0	9402.6	9395.5	9371.9
5°	9913.7	9916.1	9771.7	9577.7	9388.4	9180.2	8964.9	8811.1	8666.8	8586.4	8546.1
7.5°	9937.4	9916.1	9655.8	9341.1	8976.8	8598.2	8219.6	7916.8	7682.5	7590.3	7625.7
10°	9927.9	9861.7	9480.7	8976.8	8446.8	7881.3	7337.1	6911.2	6520.8	6319.7	6324.4
12.5°	9875.9	9767.0	9220.5	8567.4	7789.0	7031.9	6199.0	5624.1	5172.2	4904.8	4822.0
15°	9830.9	9641.6	8915.2	8011.4	7043.7	5962.4	4947.4	4237.6	3859.0	3648.4	3646.1
17.5°	9783.6	9520.9	8581.6	7422.3	6187.2	4796.0	3731.2	3189.4	3012.0	3033.3	2997.8
20°	9733.9	9379.0	8233.8	6766.9	5143.8	3577.5	2794.3	2574.3	2623.9	2720.9	2735.1
22.5°	9677.1	9227.6	7860.0	6045.2	4045.9	2692.6	2266.7	2233.5	2361.3	2512.7	2534.0
25°	9589.6	9038.3	7389.1	5290.5	3120.8	2169.7	1985.1	2008.8	2134.2	2261.9	2276.1
27.5°	9466.5	8804.0	6913.6	4348.8	2344.7	1862.1	1814.8	1845.5	1907.0	1985.1	2004.0
30°	9300.9	8539.0	6367.0	3534.9	1878.6	1708.3	1689.4	1705.9	1741.4	1774.5	1784.0
32.5°	9135.3	8283.5	5815.7	2706.8	1675.2	1606.5	1587.6	1587.6	1587.6	1592.3	1594.7
35°	8981.5	8042.2	5224.2	2108.1	1568.7	1526.1	1500.1	1471.7	1466.9	1450.4	1450.4
37.5°	8896.3	7822.1	4594.9	1765.1	1490.6	1459.8	1424.4	1377.0	1351.0	1353.4	1348.6
40°	8912.9	7677.8	4022.3	1571.1	1426.7	1393.6	1339.2	1284.8	1268.2	1268.2	1263.5
42.5°	9099.8	7630.5	3473.3	1469.3	1365.2	1327.3	1258.7	1209.0	1199.6	1197.2	1201.9
45°	9530.4	7746.4	2981.2	1403.1	1313.2	1256.4	1187.8	1142.8	1133.3	1133.3	1131.0
47.5°	10370.4	8122.6	2628.7	1360.5	1275.3	1201.9	1131.0	1086.0	1069.5	1064.7	1064.7
50°	11676.4	8938.9	2366.0	1322.6	1228.0	1152.3	1078.9	1026.9	1000.8	998.5	996.1
52.5°	13491.2	10211.8	2264.3	1294.2	1175.9	1100.2	1019.8	970.1	937.0	929.9	925.1
55°	15613.5	11988.7	2403.9	1272.9	1121.5	1041.1	958.2	906.2	875.4	861.2	858.9
57.5°	18071.8	14122.9	2933.9	1244.5	1071.8	977.2	896.7	844.7	811.6	795.0	790.3
60°	20279.3	16316.2	3859.0	1228.0	1029.2	908.6	825.7	778.4	747.7	731.1	728.7
62.5°	22704.5	18407.8	4964.0	1272.9	1010.3	842.3	759.5	716.9	690.9	674.3	674.3
65°	25295.3	20501.7	5695.1	1424.4	1038.7	790.3	688.5	653.0	629.4	617.5	615.2
67.5°	27041.5	21225.8	4691.9	1580.5	1109.7	733.5	619.9	591.5	577.3	565.5	565.5
69°	26852.2	20310.1	3461.5	1620.7	1131.0	705.1	582.0	560.8	541.8	537.1	532.4
70°	26253.6	19266.7	2900.8	1594.7	1114.4	679.1	558.4	532.4	515.8	511.1	508.7
72.5°	23383.6	16709.0	2160.2	1386.5	948.8	589.1	494.5	470.8	456.6	449.5	449.5
75°	19427.6	13656.8	1687.0	1102.6	742.9	496.9	423.5	404.6	392.8	388.0	385.7
77.5°	10888.5	7625.7	1211.4	863.6	563.1	402.2	354.9	338.3	326.5	321.8	321.8
80°	3033.3	2179.1	712.2	570.2	383.3	305.2	281.6	269.7	253.2	241.3	248.4
82.5°	1142.8	944.1	407.0	343.1	243.7	203.5	196.4	186.9	179.8	163.3	163.3
85°	556.0	459.0	260.3	182.2	134.9	106.5	101.7	97.0	92.3	80.4	82.8
87.5°	191.6	203.5	113.6	66.2	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)