

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: P456084

Luminaire Tested: **GALN-SA7B-750-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456084  
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-SA7B-750-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 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: 39561 lumens  
Efficiency: N/A  
Efficacy: 138.3 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

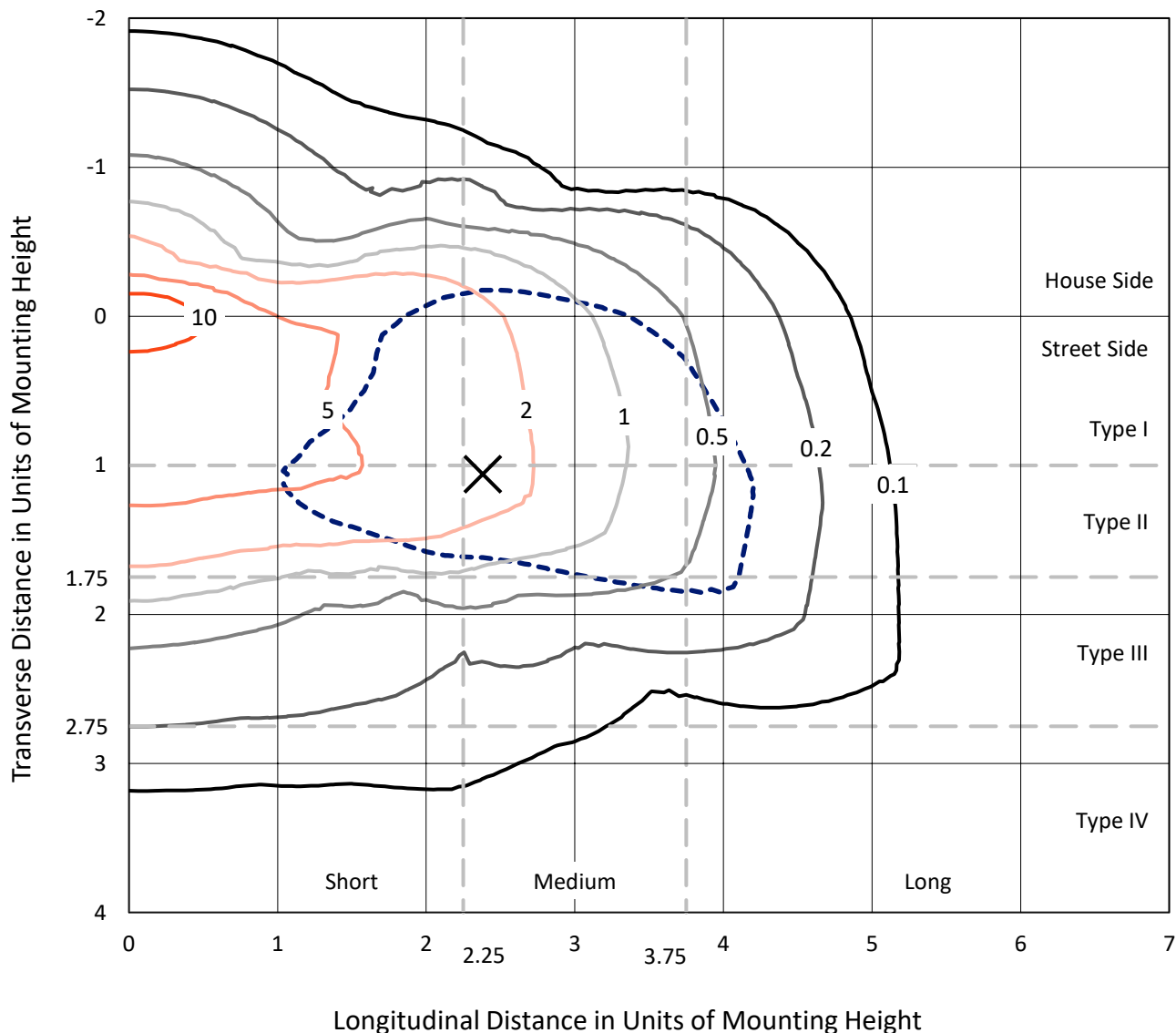
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

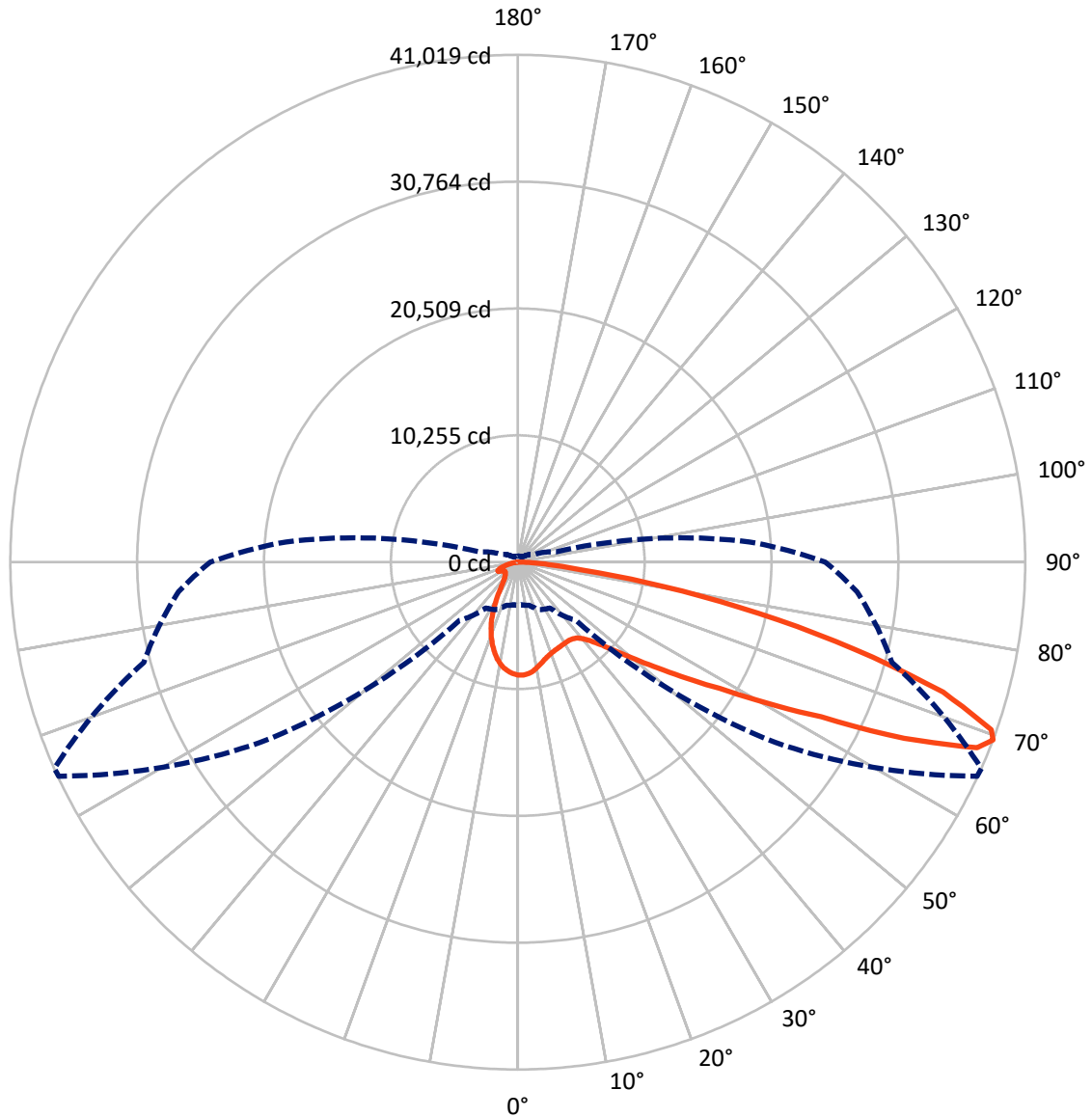
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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
<b>House Side</b>	Lumens	7439.9	0.0	7439.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	32121.1	0.0	32121.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	39561.0	0.0	39561.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.3	2.0
10°-20°	1881.7	4.8
20°-30°	2561.7	6.5
30°-40°	3442.4	8.7
40°-50°	5140.1	13.0
50°-60°	8176.2	20.7
60°-70°	10056.3	25.4
70°-80°	6543.0	16.5
80°-90°	966.2	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°	39561.0	100.0
0°-180°	39561.0	100.0

**Coefficient of Utilization**



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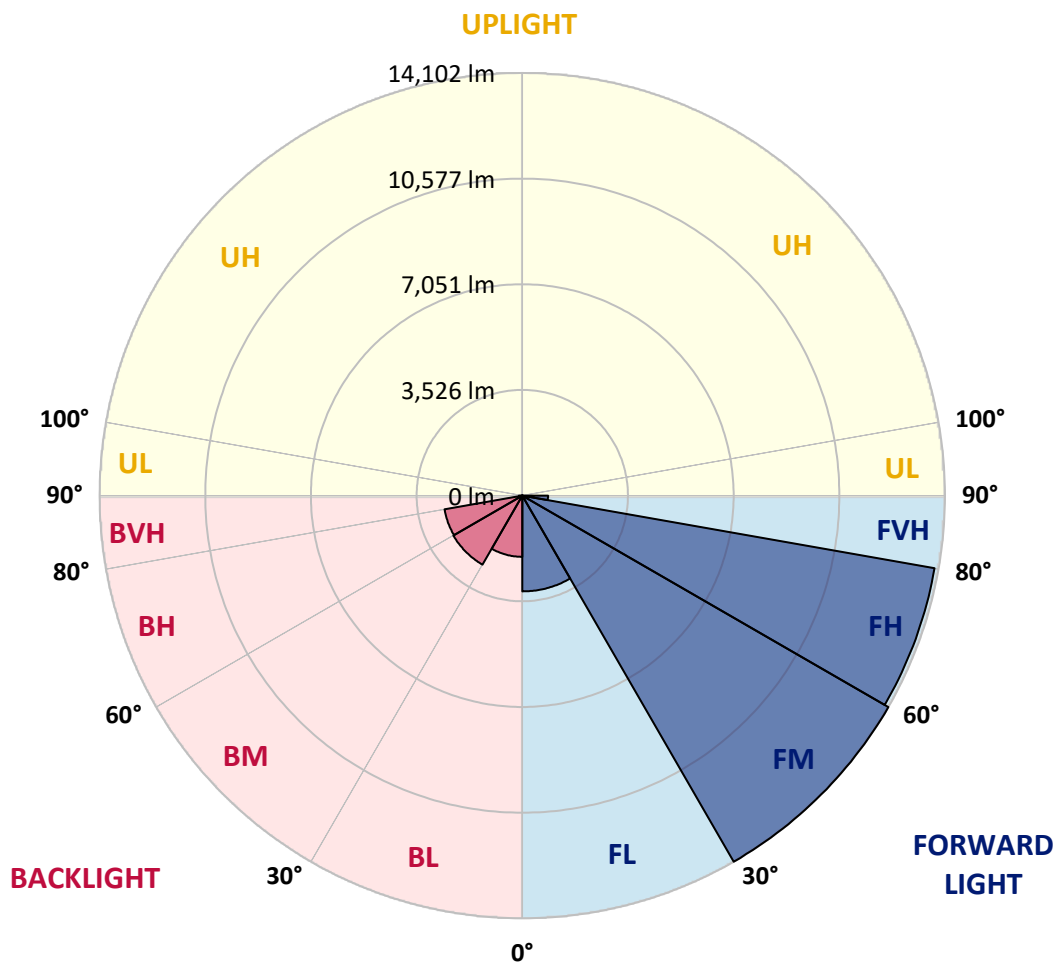
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3194.5	8.1			
FM	(30°-60°)	14102.3	35.6			
FH	(60°-80°)	13965.2	35.3			G5
FVH	(80°-90°)	859.0	2.2			G5
BL	(0°-30°)	2042.3	5.2	B3/2500		
BM	(30°-60°)	2656.4	6.7	B3/5000		
BH	(60°-80°)	2634.1	6.7	B4/5000		G4/5000
BVH	(80°-90°)	107.2	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°	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7
2.5°	8815.9	8850.9	8890.4	8934.2	9017.4	9063.4	9096.3	9133.5	9137.9	9157.6	9142.3
5°	8165.2	8206.8	8266.0	8349.2	8474.1	8669.1	8870.6	9035.0	9054.7	9146.7	9173.0
7.5°	7621.9	7646.0	7694.2	7827.8	8005.3	8222.2	8515.7	8848.7	8896.9	9116.0	9192.7
10°	7179.3	7203.4	7260.4	7398.4	7573.7	7845.3	8167.4	8605.6	8645.0	9021.8	9197.1
12.5°	6848.5	6870.4	6931.8	7067.6	7269.2	7523.3	7878.2	8342.7	8399.6	8896.9	9155.5
15°	6596.6	6638.2	6688.6	6800.3	7012.8	7258.2	7602.2	8101.7	8147.7	8765.5	9127.0
17.5°	6489.2	6508.9	6544.0	6647.0	6802.5	7043.5	7389.6	7913.3	7968.0	8673.5	9120.4
20°	6493.6	6513.3	6519.9	6576.9	6688.6	6896.7	7238.5	7764.3	7830.0	8592.4	9131.4
22.5°	6642.6	6644.8	6620.7	6601.0	6644.8	6817.8	7131.1	7652.5	7729.2	8557.4	9140.1
25°	6872.6	6912.0	6877.0	6785.0	6703.9	6787.2	7089.5	7591.2	7663.5	8507.0	9129.2
27.5°	7245.1	7251.6	7223.1	7098.3	6887.9	6826.6	7072.0	7545.2	7606.5	8469.7	9074.4
30°	7744.6	7724.8	7698.6	7560.5	7229.7	6977.8	7109.2	7503.6	7567.1	8415.0	9008.7
32.5°	8250.6	8312.0	8287.9	8125.8	7696.4	7271.3	7229.7	7499.2	7551.8	8373.3	8936.4
35°	8787.4	8815.9	8929.8	8846.5	8406.2	7746.8	7455.4	7567.1	7608.7	8375.5	8886.0
37.5°	9208.0	9284.7	9552.0	9624.3	9210.2	8375.5	7821.2	7759.9	7777.4	8482.9	8905.7
40°	9716.3	9847.8	10191.7	10487.5	10215.8	9192.7	8443.4	8117.0	8138.9	8741.4	9035.0
42.5°	10360.4	10452.4	10914.7	11315.6	11271.8	10272.8	9197.1	8702.0	8712.9	9256.2	9396.4
45°	11114.0	11245.5	11764.7	12367.2	12470.2	11495.3	10285.9	9587.0	9580.5	10055.9	10071.2
47.5°	12078.0	12159.1	12673.9	13331.2	13747.4	13031.0	11607.0	10857.7	10787.6	11221.4	11096.5
50°	12965.3	13092.4	13482.3	14200.9	15237.2	14829.7	13344.3	12505.2	12340.9	12746.2	12535.9
52.5°	13337.7	13471.4	13800.0	14691.7	16514.4	17156.3	15550.5	14470.4	14196.5	14507.6	14431.0
55°	12691.4	12864.5	13171.2	14255.7	17075.3	19840.1	18525.6	16742.3	16542.9	16409.3	16431.2
57.5°	10954.1	11118.4	11532.5	12728.7	16404.9	21787.7	22773.6	19662.6	19235.4	18619.8	18725.0
60°	8338.3	8441.2	8655.9	9981.4	14417.8	22293.8	27597.8	23354.2	23082.5	20821.6	20896.1
62.5°	5921.8	6037.9	6186.9	6848.5	10555.4	20867.6	31374.8	28509.2	27538.7	23102.2	23029.9
65°	4808.9	4730.0	4909.6	5218.5	6193.5	16172.7	32224.8	35664.4	34328.0	26105.9	25102.5
67.5°	3954.4	3871.2	4048.6	4598.5	4710.3	9387.7	29162.1	40309.0	40041.7	29372.4	27207.8
69°	3500.9	3457.1	3612.7	4239.2	4521.9	6666.7	25404.8	40955.3	41018.8	31298.1	27532.1
70°	3154.8	3172.3	3323.5	4057.4	4436.4	5496.8	21713.3	40063.6	40602.5	32259.9	27181.5
72.5°	2322.3	2359.5	2569.8	3360.7	4355.4	4664.3	12921.5	34994.0	35947.0	32316.8	24865.8
75°	1623.4	1605.9	1792.1	2530.4	4114.4	4622.6	7589.0	27063.2	28143.3	27933.0	20893.9
77.5°	1062.5	1091.0	1240.0	1787.7	3461.5	4587.6	4946.9	19200.4	19901.4	18681.2	12358.4
80°	749.3	747.1	830.3	1220.3	2567.6	4407.9	4050.8	12102.1	11924.7	7341.4	3665.2
82.5°	429.4	460.1	556.5	858.8	1717.6	3879.9	3726.6	5788.2	5284.3	2092.2	1237.8
85°	238.8	249.8	330.8	519.2	1003.4	2922.6	3253.4	2633.4	2484.4	874.1	532.4
87.5°	76.7	83.3	138.0	262.9	455.7	1380.2	1842.5	1215.9	1121.7	315.5	214.7
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°	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7	9135.7
2.5°	9148.9	9175.2	9105.1	9037.1	8975.8	8890.4	8813.7	8750.1	8706.3	8699.8	8677.9
5°	9179.6	9181.7	9048.1	8868.5	8693.2	8500.4	8301.0	8158.6	8025.0	7950.5	7913.3
7.5°	9201.5	9181.7	8940.8	8649.4	8312.0	7961.5	7610.9	7330.5	7113.6	7028.2	7061.0
10°	9192.7	9131.4	8778.6	8312.0	7821.2	7297.6	6793.7	6399.4	6037.9	5851.7	5856.1
12.5°	9144.5	9043.7	8537.6	7933.0	7212.2	6511.1	5740.0	5207.6	4789.1	4541.6	4464.9
15°	9102.9	8927.6	8255.0	7418.1	6522.1	5520.9	4581.0	3923.8	3573.2	3378.2	3376.1
17.5°	9059.1	8815.9	7946.1	6872.6	5729.0	4440.8	3454.9	2953.2	2788.9	2808.6	2775.8
20°	9013.0	8684.4	7624.1	6265.8	4762.9	3312.5	2587.4	2383.6	2429.6	2519.4	2532.6
22.5°	8960.5	8544.2	7277.9	5597.6	3746.3	2493.2	2098.8	2068.1	2186.4	2326.7	2346.4
25°	8879.4	8368.9	6841.9	4898.7	2889.7	2009.0	1838.1	1860.0	1976.1	2094.4	2107.6
27.5°	8765.5	8152.1	6401.6	4026.7	2171.1	1724.2	1680.4	1708.8	1765.8	1838.1	1855.6
30°	8612.1	7906.7	5895.5	3273.1	1739.5	1581.8	1564.2	1579.6	1612.4	1643.1	1651.9
32.5°	8458.8	7670.1	5385.0	2506.3	1551.1	1487.6	1470.0	1470.0	1470.0	1474.4	1476.6
35°	8316.4	7446.6	4837.3	1952.0	1452.5	1413.1	1389.0	1362.7	1358.3	1343.0	1343.0
37.5°	8237.5	7242.9	4254.6	1634.4	1380.2	1351.7	1318.9	1275.1	1251.0	1253.2	1248.8
40°	8252.8	7109.2	3724.4	1454.7	1321.1	1290.4	1240.0	1189.6	1174.3	1174.3	1169.9
42.5°	8425.9	7065.4	3216.1	1360.5	1264.1	1229.1	1165.5	1119.5	1110.7	1108.6	1112.9
45°	8824.6	7172.8	2760.4	1299.2	1215.9	1163.3	1099.8	1058.2	1049.4	1049.4	1047.2
47.5°	9602.4	7521.1	2434.0	1259.7	1180.9	1112.9	1047.2	1005.6	990.3	985.9	985.9
50°	10811.7	8276.9	2190.8	1224.7	1137.0	1066.9	999.0	950.8	926.7	924.5	922.3
52.5°	12492.1	9455.6	2096.6	1198.4	1088.8	1018.7	944.2	898.2	867.6	861.0	856.6
55°	14457.2	11100.9	2225.9	1178.7	1038.5	964.0	887.3	839.1	810.6	797.5	795.3
57.5°	16733.5	13077.0	2716.6	1152.4	992.4	904.8	830.3	782.1	751.5	736.1	731.7
60°	18777.5	15107.9	3573.2	1137.0	953.0	841.3	764.6	720.8	692.3	677.0	674.8
62.5°	21023.1	17044.6	4596.3	1178.7	935.5	779.9	703.3	663.8	639.7	624.4	624.4
65°	23422.1	18983.5	5273.3	1318.9	961.8	731.7	637.5	604.7	582.8	571.8	569.6
67.5°	25038.9	19653.9	4344.4	1463.5	1027.5	679.2	574.0	547.7	534.6	523.6	523.6
69°	24863.7	18806.0	3205.2	1500.7	1047.2	652.9	538.9	519.2	501.7	497.3	492.9
70°	24309.4	17839.9	2685.9	1476.6	1031.9	628.8	517.0	492.9	477.6	473.2	471.0
72.5°	21651.9	15471.6	2000.2	1283.8	878.5	545.5	457.9	436.0	422.8	416.3	416.3
75°	17988.9	12645.4	1562.1	1020.9	687.9	460.1	392.2	374.6	363.7	359.3	357.1
77.5°	10082.2	7061.0	1121.7	799.7	521.4	372.4	328.6	313.3	302.3	298.0	298.0
80°	2808.6	2017.7	659.4	528.0	354.9	282.6	260.7	249.8	234.4	223.5	230.0
82.5°	1058.2	874.1	376.8	317.7	225.7	188.4	181.8	173.1	166.5	151.2	151.2
85°	514.8	425.0	241.0	168.7	124.9	98.6	94.2	89.8	85.4	74.5	76.7
87.5°	177.5	188.4	105.2	61.3	37.2	24.1	19.7	11.0	11.0	11.0	11.0
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)