

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: P943998

Luminaire Tested: **GALN-SB8D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57787 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 584.9
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

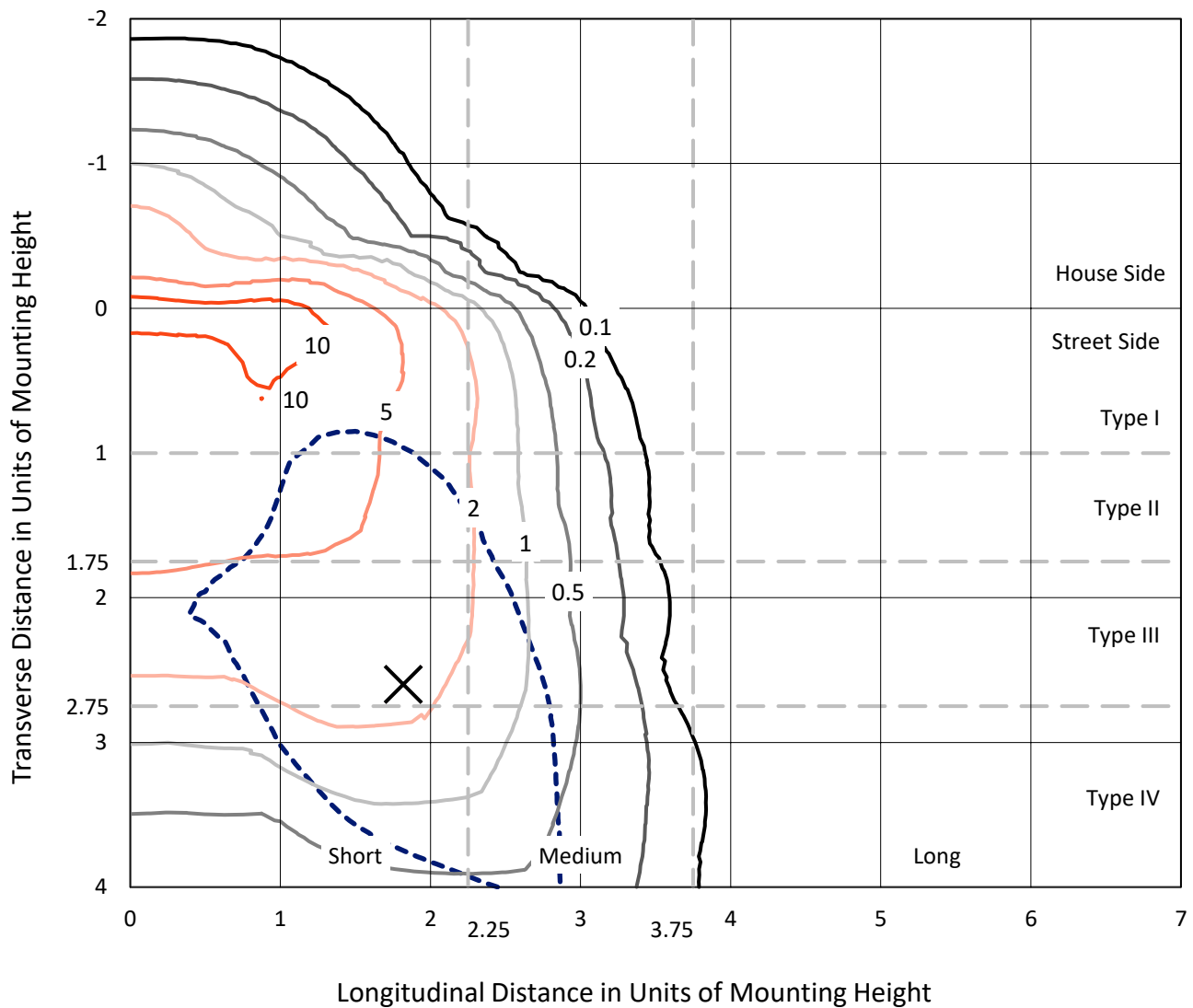


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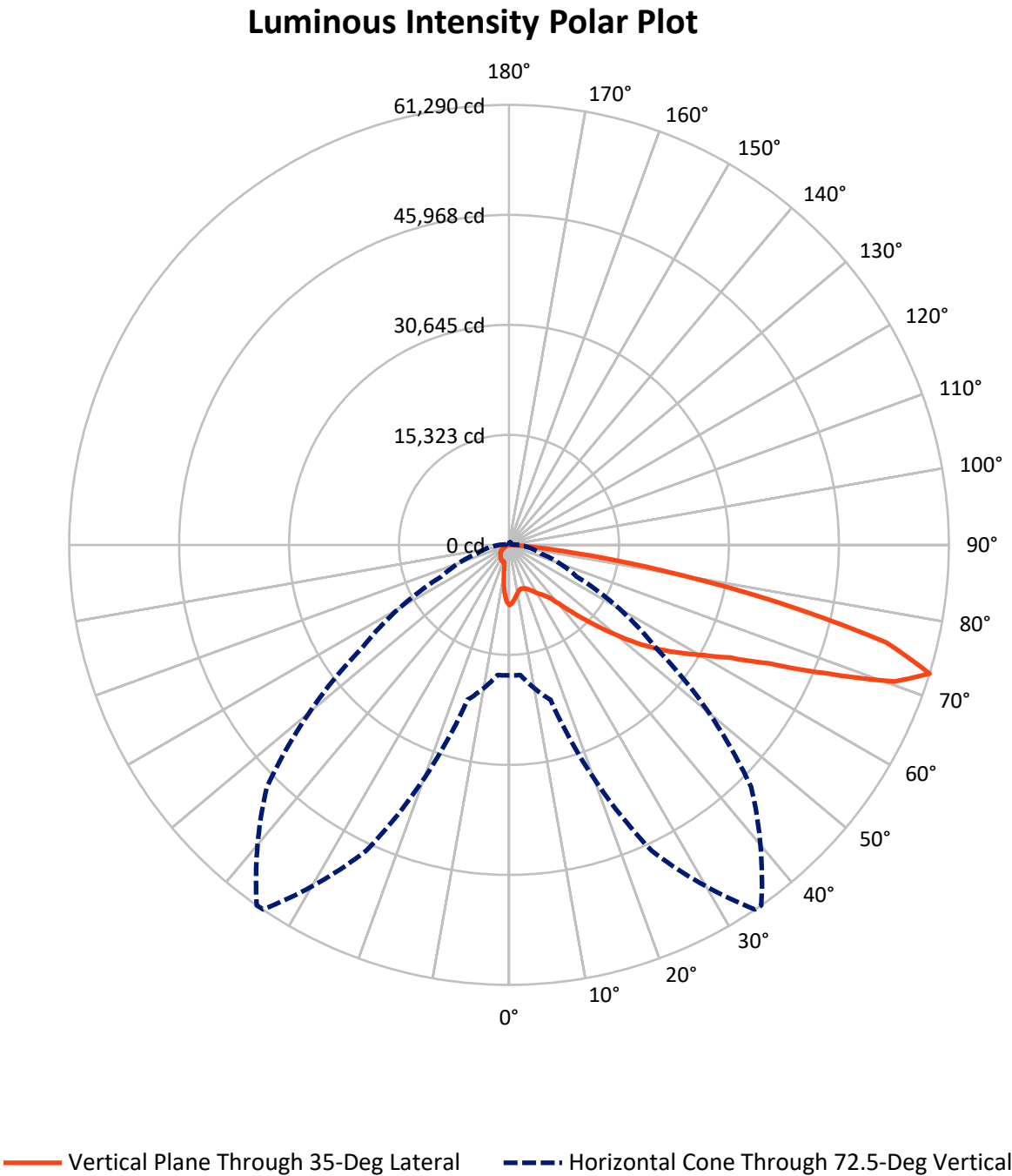
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6503.7	0.0	6503.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	51283.3	0.0	51283.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	57787.0	0.0	57787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.2	1.2
10°-20°	1610.0	2.8
20°-30°	2615.4	4.5
30°-40°	4363.8	7.6
40°-50°	8256.5	14.3
50°-60°	13119.5	22.7
60°-70°	16229.7	28.1
70°-80°	10088.5	17.5
80°-90°	815.3	1.4
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°	57787.0	100.0
0°-180°	57787.0	100.0

Coefficient of Utilization



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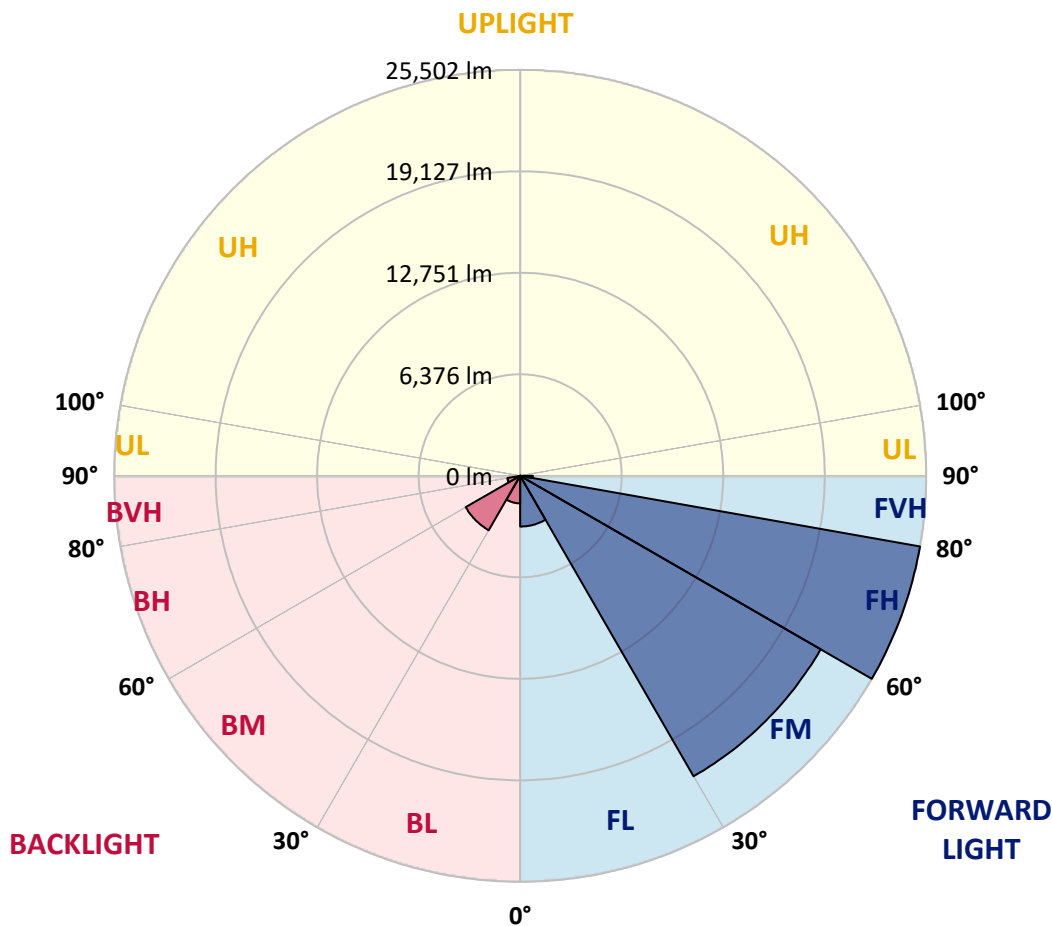
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3185.5	5.5			
FM	(30°-60°)	21791.5	37.7			
FH	(60°-80°)	25502.1	44.1			G5
FVH	(80°-90°)	804.2	1.4			G5
BL	(0°-30°)	1728.1	3.0	B3/2500		
BM	(30°-60°)	3948.3	6.8	B3/5000		
BH	(60°-80°)	816.1	1.4	B2/1000		G2/1000
BVH	(80°-90°)	11.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3
2.5°	8002.7	8070.4	8083.1	8104.3	8104.3	8129.7	8172.0	8231.3	8328.7	8379.5	8413.4
5°	7376.0	7426.8	7490.3	7541.1	7638.5	7651.2	7816.4	7977.3	8201.7	8371.0	8489.6
7.5°	6745.1	6804.4	6889.1	7011.9	7138.9	7177.0	7426.8	7697.8	8053.5	8371.0	8570.0
10°	6300.5	6304.7	6381.0	6503.8	6707.0	6753.6	7058.4	7443.7	7888.3	8320.2	8646.3
12.5°	6050.7	6080.3	6114.2	6207.4	6402.1	6431.8	6757.8	7210.9	7723.2	8290.6	8735.2
15°	6050.7	6071.9	6093.0	6139.6	6296.3	6321.7	6609.6	7062.7	7638.5	8303.3	8879.1
17.5°	6114.2	6148.1	6131.1	6186.2	6351.3	6368.3	6622.3	7020.3	7634.3	8383.7	9099.3
20°	6266.6	6292.0	6258.2	6292.0	6457.2	6491.0	6753.6	7100.8	7706.3	8523.5	9374.5
22.5°	6508.0	6520.7	6440.2	6465.6	6635.0	6677.4	6982.2	7329.4	7879.9	8747.9	9742.9
25°	6812.8	6838.3	6715.5	6745.1	6906.0	6956.8	7308.3	7672.4	8155.1	9057.0	10212.9
27.5°	7164.3	7177.0	7071.1	7066.9	7274.4	7346.4	7702.0	8095.8	8523.5	9446.5	10805.7
30°	7566.5	7604.6	7503.0	7486.1	7748.6	7807.9	8159.3	8616.6	9065.5	10030.9	11648.3
32.5°	7884.1	7913.7	7854.5	7896.8	8163.6	8210.1	8714.0	9353.4	9916.5	10860.8	12795.8
35°	8341.4	8358.3	8222.8	8299.1	8603.9	8722.5	9471.9	10386.5	10987.8	11902.4	14294.7
37.5°	9997.0	9997.0	9421.1	9044.3	9336.4	9442.3	10509.3	11686.4	12308.9	13299.7	16183.2
40°	12287.7	12249.6	11407.0	10636.3	10598.2	10805.7	11987.1	13325.1	14015.2	14976.4	18308.7
42.5°	14730.8	14671.5	13524.1	12761.9	12634.9	12706.9	13693.4	15344.8	16047.7	17021.5	20595.2
45°	16898.7	16881.8	15831.7	14807.0	14578.4	14807.0	15823.3	17707.5	18211.4	19236.0	22877.5
47.5°	18715.2	18715.2	17948.8	17279.8	17161.3	17296.8	18706.8	20328.5	20281.9	21594.5	25100.4
50°	20806.9	20790.0	20061.7	19773.8	19896.6	20087.1	22026.4	23089.2	22424.4	23910.6	27086.3
52.5°	22272.0	22373.6	22123.8	22077.2	22703.9	23034.1	25396.8	25790.6	24342.5	26108.2	28572.5
55°	23432.1	23550.7	23838.6	24164.7	25371.4	25803.3	28661.4	28352.3	25947.3	28013.6	29427.8
57.5°	25075.0	24905.6	25350.2	25993.8	27945.8	28466.6	31824.3	30770.0	27238.7	29559.0	29520.9
60°	27069.3	27094.7	27170.9	27983.9	30516.0	31185.0	34940.7	33056.5	28068.6	30507.5	28487.8
62.5°	29465.9	29504.0	29660.7	30909.8	33966.9	34597.8	38260.4	34928.0	28449.7	30240.8	25820.2
65°	29300.8	29461.7	31210.4	35482.7	39213.0	39835.5	42134.7	36240.6	27873.8	27801.8	21022.9
67.5°	26692.5	26955.0	29880.8	40944.8	47122.6	47817.0	46817.7	36498.9	25388.3	21619.9	13714.6
70°	23271.2	23364.4	26883.0	45856.5	56281.2	56984.0	51009.6	33657.8	19265.7	12059.0	6143.8
72.5°	18173.2	18194.4	22322.8	46995.5	61252.1	61290.2	47719.6	24986.1	10361.1	4632.2	2134.0
75°	12982.1	12855.1	14951.0	38112.2	53888.8	54320.7	35774.9	11720.3	3959.0	2189.1	1062.8
77.5°	6961.0	7100.8	8460.0	22602.2	37227.2	37964.0	19519.7	3378.9	2015.5	1490.4	702.9
80°	2151.0	2269.5	3467.8	10348.4	21086.4	21531.0	7236.3	1503.1	1405.8	1062.8	461.5
82.5°	677.5	702.9	1617.5	4348.5	8752.1	8955.4	2095.9	851.1	961.2	702.9	271.0
85°	194.8	199.0	719.8	1621.7	2163.7	2206.0	588.6	330.3	550.4	436.1	139.7
87.5°	21.2	67.7	271.0	271.0	190.5	186.3	63.5	72.0	156.7	55.0	25.4
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°	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3	8375.3
2.5°	8392.2	8396.4	8341.4	8248.2	8146.6	8061.9	7956.1	7871.4	7812.1	7795.2	7824.8
5°	8451.5	8421.9	8265.2	7981.5	7642.8	7350.6	7024.6	6766.3	6596.9	6524.9	6550.3
7.5°	8540.4	8455.7	8112.8	7553.8	6906.0	6330.1	5745.8	5292.8	5004.8	4860.9	4882.0
10°	8616.6	8447.3	7858.7	6935.6	5944.8	5072.6	4285.0	3738.8	3433.9	3290.0	3294.2
12.5°	8688.6	8443.0	7528.4	6203.1	4860.9	3793.9	3061.3	2790.3	2705.7	2676.0	2667.6
15°	8824.1	8455.7	7113.5	5364.7	3781.2	2866.6	2599.8	2595.6	2612.5	2604.0	2599.8
17.5°	9010.4	8468.4	6643.5	4475.6	2917.4	2527.8	2515.1	2553.2	2578.6	2565.9	2561.7
20°	9251.8	8519.2	6143.8	3594.8	2506.7	2443.1	2472.8	2506.7	2527.8	2506.7	2502.4
22.5°	9590.5	8608.2	5597.6	2887.7	2375.4	2392.3	2417.7	2455.8	2477.0	2447.4	2443.1
25°	10005.4	8747.9	5059.9	2510.9	2311.9	2333.1	2371.2	2413.5	2438.9	2409.3	2405.0
27.5°	10543.2	8972.3	4564.5	2426.2	2248.4	2261.1	2316.1	2379.6	2413.5	2375.4	2375.4
30°	11322.3	9340.7	4136.8	2464.3	2210.3	2180.6	2256.8	2345.8	2383.9	2350.0	2345.8
32.5°	12355.4	9861.5	3874.3	2523.6	2193.3	2087.5	2159.4	2273.8	2337.3	2316.1	2316.1
35°	13710.4	10653.3	3772.7	2591.3	2180.6	1990.1	2040.9	2163.7	2273.8	2294.9	2294.9
37.5°	15353.3	11754.2	3802.3	2621.0	2142.5	1909.6	1935.0	2040.9	2184.9	2252.6	2269.5
40°	17220.5	13037.1	3971.7	2591.3	2100.2	1841.9	1846.1	1926.6	2053.6	2155.2	2189.1
42.5°	19147.1	14536.1	4285.0	2481.2	2062.1	1782.6	1769.9	1824.9	1909.6	1981.6	2011.3
45°	20980.5	16077.3	4594.1	2328.8	2015.5	1723.3	1693.7	1714.9	1731.8	1761.4	1778.4
47.5°	22581.1	17161.3	4505.2	2189.1	1952.0	1655.6	1604.8	1596.3	1545.5	1541.3	1537.0
50°	23686.2	17398.4	4001.3	2049.4	1858.8	1579.4	1498.9	1448.1	1359.2	1316.8	1321.1
52.5°	24037.6	16462.6	3268.8	1909.6	1706.4	1477.7	1363.4	1283.0	1172.9	1134.8	1130.5
55°	23571.9	14629.2	2612.5	1740.3	1494.7	1342.2	1215.2	1109.4	1020.4	973.9	973.9
57.5°	22432.9	12296.2	2066.3	1541.3	1270.3	1189.8	1062.8	956.9	880.7	834.1	825.7
60°	20544.4	9764.1	1634.4	1304.1	1084.0	1024.7	893.4	825.7	757.9	702.9	690.2
62.5°	17677.8	6969.5	1283.0	1033.1	906.1	838.4	762.2	711.3	630.9	554.7	542.0
65°	13795.1	4263.9	990.8	757.9	728.3	694.4	647.8	601.3	503.9	427.7	415.0
67.5°	8701.3	2019.7	707.1	571.6	575.9	558.9	537.7	499.6	427.7	359.9	351.4
70°	3832.0	978.1	465.8	436.1	427.7	427.7	444.6	431.9	364.1	300.6	287.9
72.5°	1304.1	525.0	347.2	330.3	309.1	304.9	372.6	359.9	292.2	232.9	220.2
75°	681.7	351.4	254.1	237.1	186.3	224.4	296.4	279.5	207.5	152.4	139.7
77.5°	444.6	249.8	173.6	152.4	105.9	148.2	220.2	194.8	122.8	76.2	67.7
80°	279.5	165.1	101.6	72.0	50.8	80.5	118.6	84.7	46.6	16.9	12.7
82.5°	148.2	84.7	38.1	25.4	21.2	25.4	29.6	21.2	8.5	0.0	0.0
85°	59.3	29.6	12.7	8.5	4.2	0.0	8.5	4.2	0.0	0.0	0.0
87.5°	21.2	4.2	0.0	0.0	0.0	0.0	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)