

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: P953792

Luminaire Tested: **GALN-SB7B-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37642 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 256.7
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



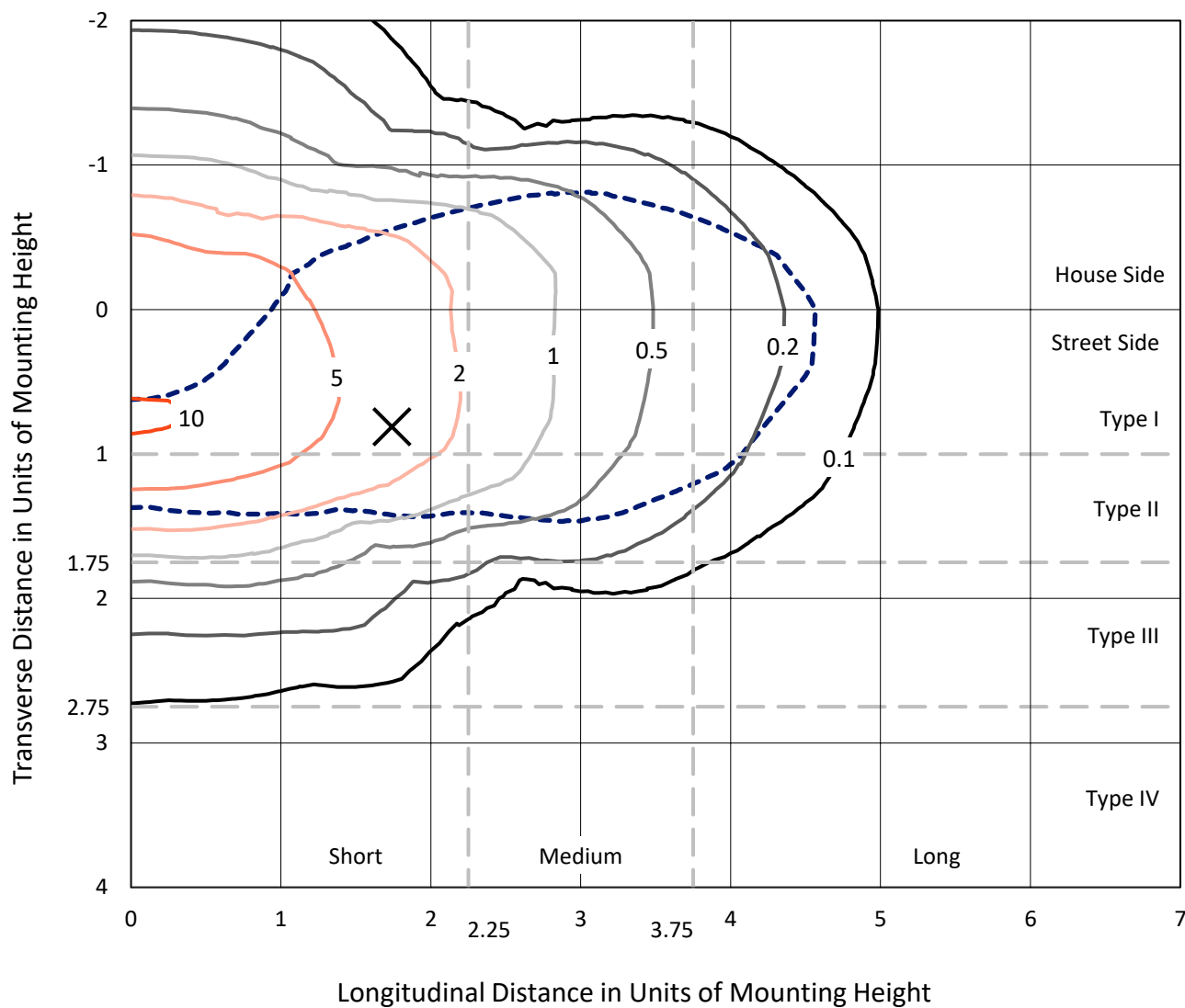
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

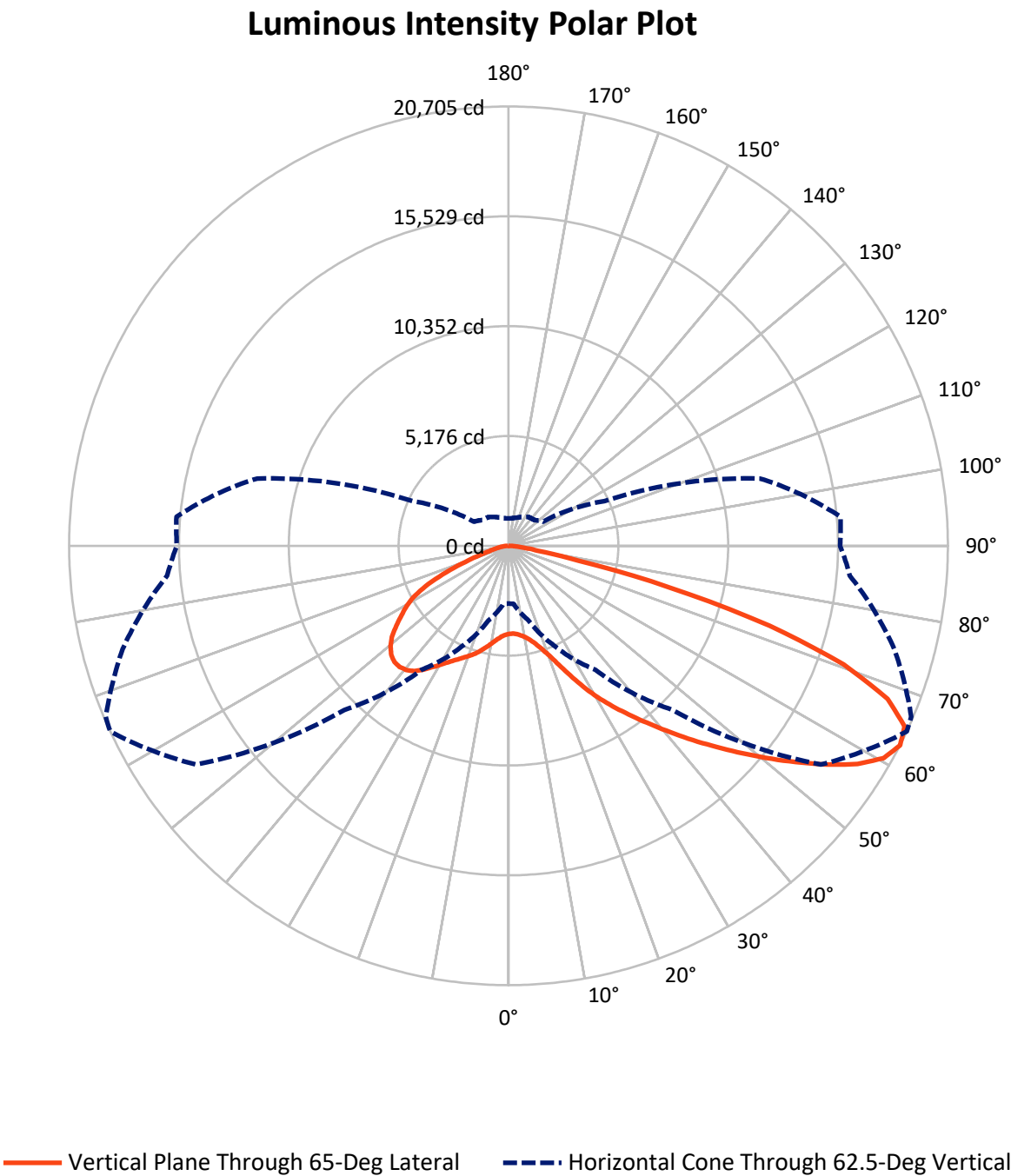
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11878.2	0.0	11878.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25763.8	0.0	25763.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	37642.0	0.0	37642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.6	1.1
10°-20°	1402.4	3.7
20°-30°	2843.5	7.6
30°-40°	4920.6	13.1
40°-50°	7446.4	19.8
50°-60°	8730.4	23.2
60°-70°	7319.4	19.4
70°-80°	4040.9	10.7
80°-90°	524.9	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°	37642.0	100.0
0°-180°	37642.0	100.0

Coefficient of Utilization



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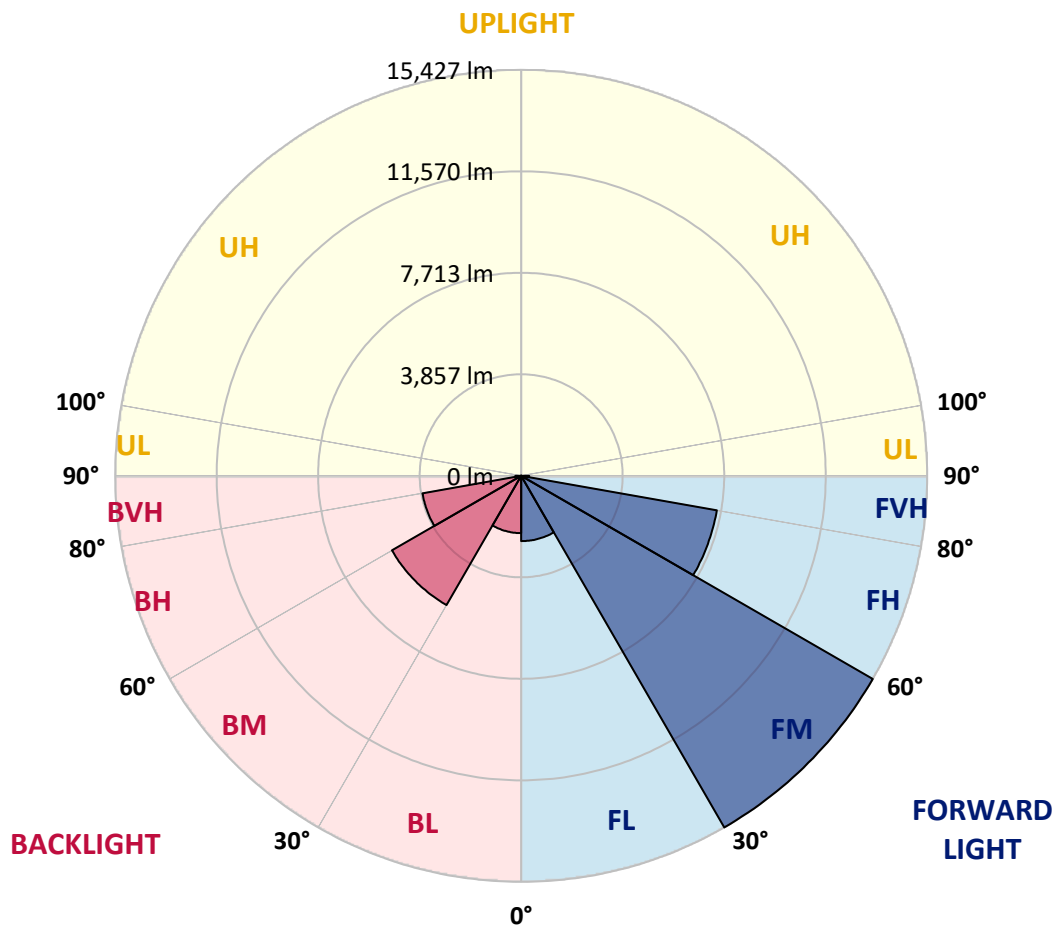
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2481.1	6.6			
FM	(30°-60°)	15426.9	41.0			
FH	(60°-80°)	7549.9	20.1			G4/12000
FVH	(80°-90°)	305.9	0.8			G3/500
BL	(0°-30°)	2178.3	5.8	B3/2500		
BM	(30°-60°)	5670.5	15.1	B4/8500		
BH	(60°-80°)	3810.4	10.1	B4/5000		G4/5000
BVH	(80°-90°)	219.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0
2.5°	4120.6	4108.9	4118.7	4118.7	4122.6	4120.6	4134.3	4138.2	4144.1	4155.8	4155.8
5°	4079.6	4077.7	4095.3	4110.9	4126.5	4140.2	4157.7	4183.1	4187.0	4200.7	4218.3
7.5°	4066.0	4054.2	4081.6	4101.1	4138.2	4171.4	4218.3	4261.3	4278.8	4284.7	4317.9
10°	4171.4	4151.9	4177.3	4189.0	4220.2	4253.4	4308.1	4376.5	4396.0	4419.4	4456.5
12.5°	4351.1	4329.6	4366.7	4384.3	4413.6	4442.9	4480.0	4546.4	4556.1	4599.1	4634.3
15°	4597.2	4571.8	4595.2	4616.7	4665.5	4692.8	4730.0	4794.4	4794.4	4827.6	4853.0
17.5°	4931.1	4897.9	4915.5	4923.3	4954.5	4995.5	5058.0	5114.7	5144.0	5132.3	5097.1
20°	5429.1	5388.1	5388.1	5349.0	5337.3	5370.5	5452.5	5530.6	5561.9	5501.4	5415.4
22.5°	6177.1	6118.5	6085.3	5952.5	5899.7	5903.7	5985.7	6081.4	6106.8	5999.3	5806.0
25°	7128.1	7036.3	6991.4	6796.1	6677.0	6573.5	6637.9	6761.0	6796.1	6663.3	6350.9
27.5°	8079.2	8085.1	8042.1	7807.7	7610.5	7421.1	7387.9	7516.8	7553.9	7403.5	7016.8
30°	9413.0	9274.4	9192.4	8911.1	8629.9	8364.3	8227.6	8280.3	8290.1	8110.4	7661.3
32.5°	10563.3	10528.1	10352.4	10106.3	9745.0	9329.1	9100.6	9016.6	9001.0	8745.1	8212.0
35°	11873.7	11854.2	11668.6	11375.7	10985.1	10407.1	9995.0	9754.8	9735.3	9375.9	8756.9
37.5°	13205.6	13205.6	13024.0	12703.7	12299.4	11576.9	10950.0	10569.2	10506.7	10038.0	9311.5
40°	14268.0	14203.5	14236.7	14102.0	13639.1	12871.6	12010.4	11457.7	11373.8	10811.3	9901.3
42.5°	14871.4	14849.9	15049.1	15199.5	15010.1	14396.9	13178.3	12420.5	12303.3	11662.8	10580.9
45°	15006.2	14982.7	15338.2	15888.9	16154.5	15902.6	14447.6	13434.1	13291.5	12553.3	11309.3
47.5°	14695.7	14648.8	15170.2	16039.3	16890.7	17334.0	15822.5	14533.6	14326.6	13420.4	12057.3
50°	13762.2	13717.3	14506.2	15660.4	17138.8	18306.6	17314.5	15699.5	15383.1	14350.0	12813.1
52.5°	11733.1	11754.6	12990.8	14576.5	16812.6	18912.0	18599.5	16927.8	16547.0	15301.1	13522.0
55°	9139.6	9186.5	10705.9	12451.8	15508.1	18820.2	19476.4	18193.3	17814.5	16195.5	14254.3
57.5°	6544.2	6751.2	8174.9	9903.2	13002.5	17365.3	19667.8	19396.3	19029.2	17172.0	14971.0
60°	4241.7	4278.8	5743.5	7485.5	9901.3	14779.6	19279.1	20308.3	20021.3	18167.9	15570.6
62.5°	2718.5	2743.8	3636.3	5235.8	7126.2	10934.4	17970.7	20704.8	20616.9	18826.1	16146.7
65°	1997.8	1978.3	2443.1	3460.6	4800.3	6743.4	15430.0	20513.4	20687.2	19238.1	16623.2
67.5°	1667.8	1640.4	1868.9	2396.2	3536.7	3829.7	11416.7	19269.4	19906.0	19191.3	16972.8
70°	1519.4	1495.9	1634.6	1779.1	2759.5	2564.2	5755.2	16752.1	17732.4	18658.1	16916.1
72.5°	1287.0	1246.0	1435.4	1579.9	2146.3	1966.6	2378.6	12867.7	14062.9	16949.3	16119.3
75°	997.9	970.6	1132.7	1390.5	1613.1	1535.0	1503.7	7813.6	9118.1	13107.9	14102.0
77.5°	790.9	753.8	902.2	1083.9	1451.0	1158.1	1095.6	3364.9	4657.7	8368.2	10551.6
80°	595.6	562.4	685.5	857.3	1115.1	873.0	708.9	1372.9	1755.7	4239.8	5306.1
82.5°	423.8	394.5	478.5	628.8	749.9	783.1	435.5	769.4	865.1	1634.6	1185.4
85°	271.5	253.9	320.3	394.5	476.5	503.9	265.6	402.3	441.4	673.8	494.1
87.5°	148.4	121.1	171.9	183.6	220.7	201.1	126.9	146.5	158.2	244.1	209.0
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°	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0	4148.0
2.5°	4163.6	4169.5	4189.0	4194.9	4208.5	4226.1	4237.8	4249.5	4249.5	4261.3	4261.3
5°	4220.2	4233.9	4274.9	4296.4	4331.6	4366.7	4388.2	4413.6	4429.2	4437.0	4440.9
7.5°	4329.6	4351.1	4409.7	4446.8	4507.3	4556.1	4589.3	4624.5	4632.3	4653.8	4646.0
10°	4478.0	4503.4	4569.8	4640.1	4712.4	4772.9	4804.2	4829.6	4839.3	4843.2	4833.5
12.5°	4647.9	4685.0	4771.0	4856.9	4933.1	4985.8	4993.6	4987.7	4960.4	4937.0	4937.0
15°	4856.9	4890.1	4985.8	5079.5	5153.7	5163.5	5114.7	5083.4	5050.2	5044.4	5044.4
17.5°	5106.9	5124.4	5212.3	5304.1	5310.0	5276.8	5204.5	5175.2	5144.0	5122.5	5124.4
20°	5397.8	5392.0	5454.5	5493.5	5452.5	5351.0	5241.6	5192.8	5161.5	5136.2	5138.1
22.5°	5745.5	5700.6	5692.7	5683.0	5573.6	5360.7	5212.3	5149.8	5101.0	5065.9	5077.6
25°	6251.3	6079.4	5960.3	5893.9	5647.8	5308.0	5118.6	4979.9	4888.1	4827.6	4851.0
27.5°	6884.0	6595.0	6294.2	6132.1	5647.8	5200.6	4892.0	4667.5	4517.1	4454.6	4485.8
30°	7487.5	7184.8	6741.5	6419.2	5634.2	5024.8	4526.9	4214.4	4038.6	3976.1	4013.2
32.5°	8003.0	7673.0	7216.0	6733.6	5601.0	4739.7	4073.8	3728.1	3558.2	3484.0	3521.1
35°	8481.5	8130.0	7692.5	7079.3	5513.1	4321.8	3575.8	3312.1	3122.7	3003.6	3042.6
37.5°	8971.7	8553.8	8143.6	7391.8	5354.9	3833.6	3193.0	2968.4	2745.8	2585.7	2628.6
40°	9504.8	9004.9	8626.0	7577.3	5095.1	3368.8	2896.2	2691.1	2454.8	2284.9	2318.1
42.5°	10127.8	9545.8	9163.1	7673.0	4739.7	3038.7	2702.8	2501.7	2279.0	2140.4	2167.7
45°	10778.1	10141.5	9653.2	7671.0	4343.3	2884.5	2640.3	2441.1	2195.1	2050.6	2074.0
47.5°	11459.7	10764.5	10077.0	7546.1	3999.6	2905.9	2605.2	2310.3	2038.8	1898.2	1917.8
50°	12143.2	11446.0	10487.1	7311.7	3853.1	2859.1	2474.3	2126.7	1806.4	1679.5	1687.3
52.5°	12820.9	12170.5	10840.6	6977.8	3704.7	2685.3	2306.4	1888.5	1710.8	1622.9	1622.9
55°	13502.4	12887.3	11225.3	6491.5	3333.6	2482.2	2025.2	1798.6	1634.6	1554.5	1546.7
57.5°	14186.0	13715.3	11590.5	6005.2	2866.9	2232.2	1870.9	1689.3	1558.4	1490.1	1478.4
60°	14896.8	14662.5	11967.4	5558.0	2406.0	1911.9	1757.6	1601.4	1468.6	1392.4	1386.6
62.5°	15629.2	15705.3	12262.3	4981.9	1982.2	1716.6	1656.1	1495.9	1367.0	1294.8	1292.8
65°	16367.4	16711.1	12455.7	4183.1	1607.2	1531.1	1546.7	1380.7	1249.9	1187.4	1185.4
67.5°	16923.9	17435.6	12401.0	3165.7	1318.2	1355.3	1410.0	1259.6	1136.6	1087.8	1089.7
70°	16986.4	17349.7	11862.0	2167.7	1103.4	1183.5	1257.7	1140.5	1013.6	978.4	980.4
72.5°	16154.5	16177.9	10360.2	1415.9	933.5	1038.9	1097.5	1019.4	896.4	861.2	859.3
75°	13973.1	13379.4	7606.6	933.5	781.2	892.5	947.2	892.5	773.4	781.2	753.8
77.5°	10586.7	9475.5	4618.6	664.0	652.3	749.9	824.1	785.1	683.5	767.5	675.7
80°	5454.5	5126.4	2060.3	496.0	515.6	599.5	677.7	626.9	541.0	515.6	470.7
82.5°	1249.9	1453.0	812.4	355.4	373.0	431.6	517.5	470.7	388.6	328.1	324.2
85°	437.5	478.5	359.3	222.6	218.7	269.5	351.5	314.4	263.6	210.9	222.6
87.5°	138.7	181.6	134.8	89.8	93.7	121.1	162.1	148.4	123.0	80.1	84.0
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)