

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: P941784

Luminaire Tested: **GALN-SB5C-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25623 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 249.5
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



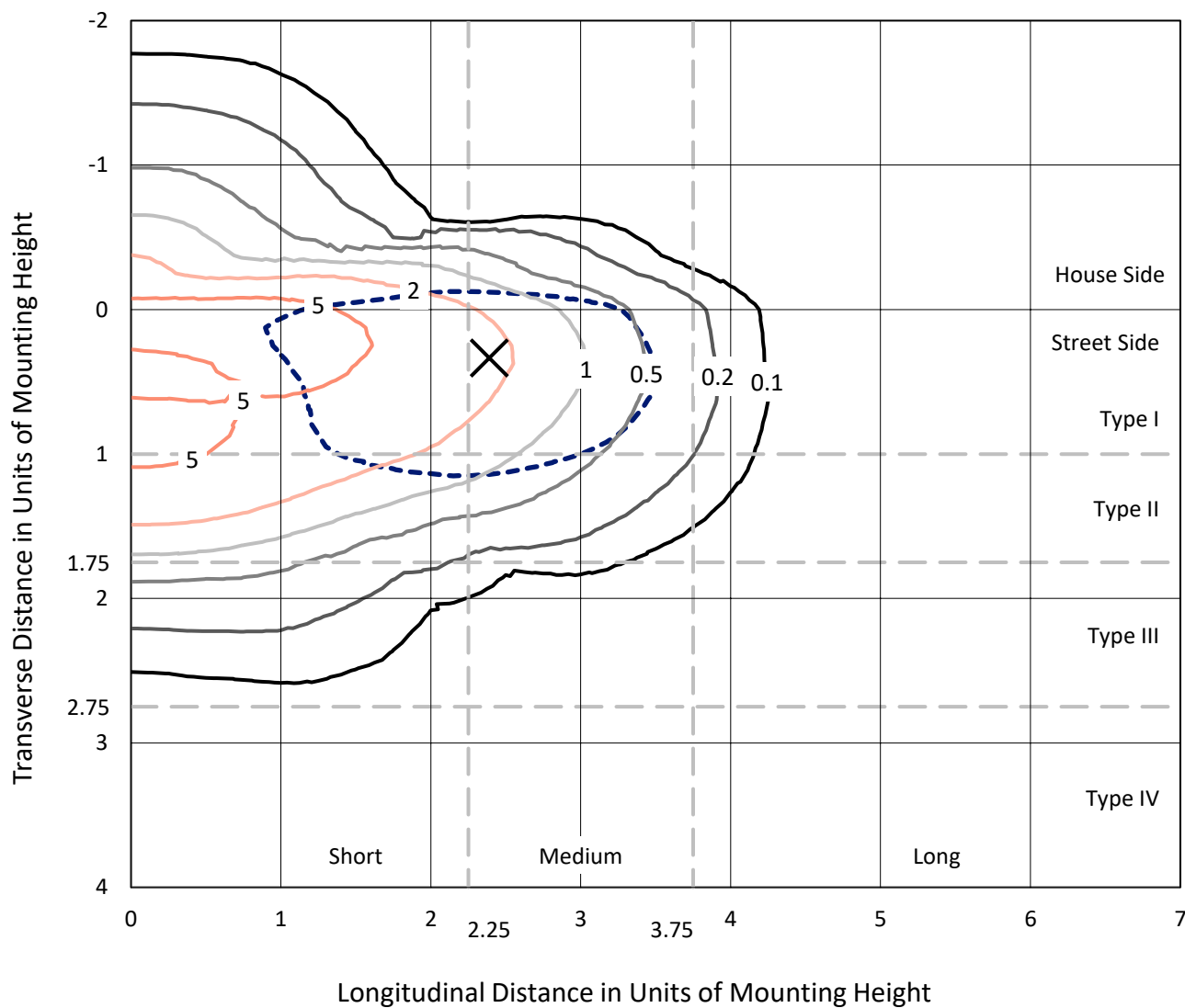
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

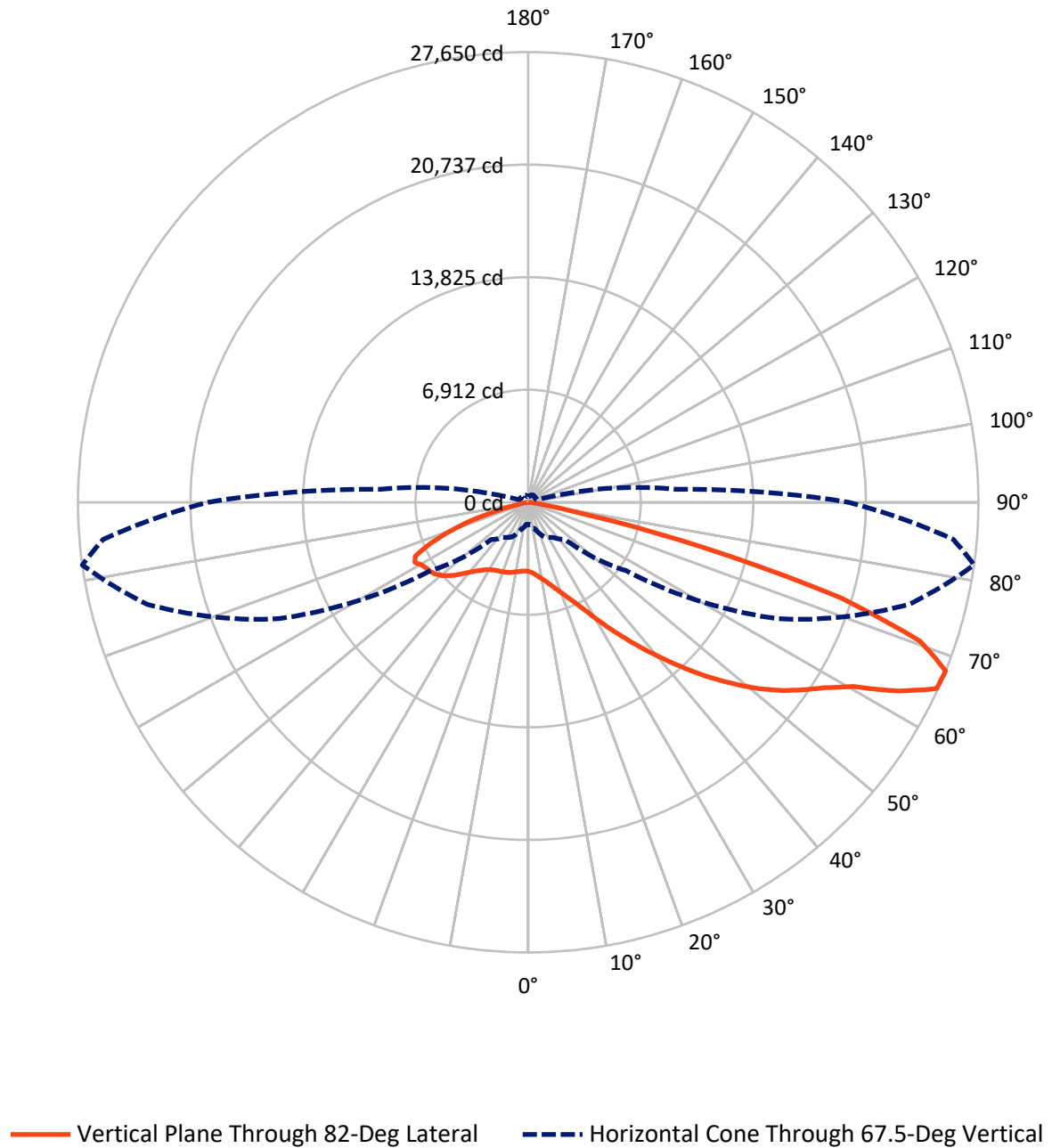


Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4641.4	0.0	4641.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20981.6	0.0	20981.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	25623.0	0.0	25623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	1.5
10°-20°	982.8	3.8
20°-30°	1574.1	6.1
30°-40°	2783.4	10.9
40°-50°	4876.8	19.0
50°-60°	6504.3	25.4
60°-70°	6055.2	23.6
70°-80°	2324.0	9.1
80°-90°	144.3	0.6
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°	25623.0	100.0
0°-180°	25623.0	100.0

Coefficient of Utilization



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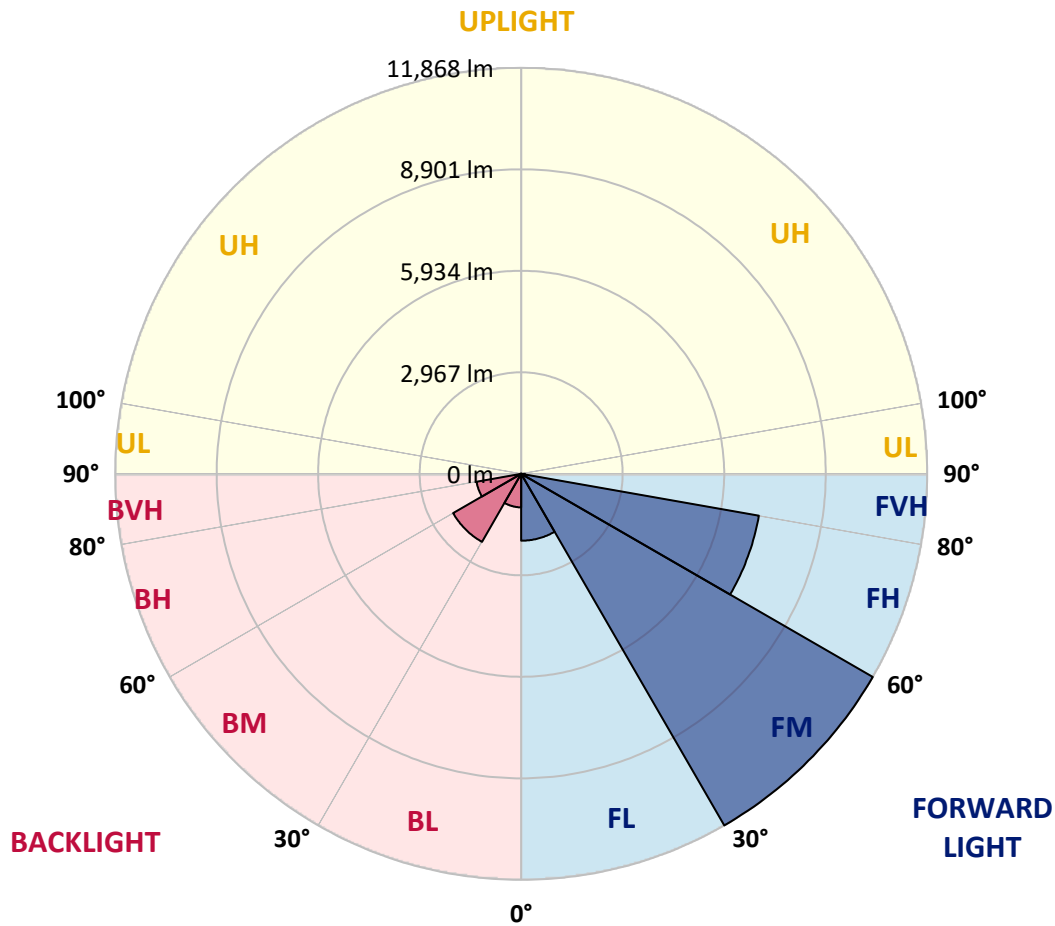
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1954.7	7.6			
FM	(30°-60°)	11867.5	46.3			
FH	(60°-80°)	7054.4	27.5			G3/7500
FVH	(80°-90°)	104.9	0.4			G2/225
BL	(0°-30°)	980.2	3.8	B2/1000		
BM	(30°-60°)	2297.0	9.0	B2/2500		
BH	(60°-80°)	1324.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	39.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9
2.5°	4486.5	4512.4	4497.6	4490.2	4477.3	4458.9	4444.1	4398.0	4350.0	4318.7	4307.6
5°	4576.9	4602.8	4600.9	4608.3	4617.5	4623.0	4619.4	4567.7	4499.4	4445.9	4414.6
7.5°	4499.4	4529.0	4552.9	4589.8	4654.4	4722.7	4755.9	4744.8	4674.7	4600.9	4562.2
10°	4279.9	4311.3	4368.5	4455.2	4591.7	4739.3	4862.9	4920.1	4875.8	4794.6	4741.1
12.5°	3877.8	3909.1	4021.6	4209.8	4438.6	4695.0	4931.1	5084.2	5095.3	5014.1	4951.4
15°	3425.8	3457.1	3577.0	3813.2	4161.8	4573.2	4968.0	5257.7	5355.4	5285.3	5209.7
17.5°	3145.4	3173.0	3263.4	3453.4	3816.9	4329.7	4955.1	5442.1	5665.4	5610.0	5519.6
20°	3060.5	3084.5	3126.9	3259.7	3562.3	4077.0	4870.2	5615.5	5999.3	5967.9	5866.4
22.5°	3150.9	3173.0	3186.0	3245.0	3435.0	3911.0	4763.3	5792.6	6386.7	6390.4	6266.8
25°	3359.4	3381.5	3366.7	3403.6	3486.7	3859.3	4722.7	6001.1	6873.7	6914.3	6774.1
27.5°	3702.5	3704.3	3669.3	3667.4	3680.4	3936.8	4765.1	6224.3	7488.0	7563.6	7390.2
30°	4390.6	4362.9	4228.3	4082.5	4016.1	4169.2	4883.2	6488.1	8213.0	8347.7	8130.0
32.5°	5451.4	5410.8	5163.6	4814.9	4464.4	4543.7	5095.3	6788.8	9002.6	9246.1	8980.4
35°	6602.5	6591.4	6333.2	5814.8	5202.3	5076.9	5440.3	7183.6	9864.1	10251.5	9936.0
37.5°	7672.5	7667.0	7519.4	6908.7	6163.4	5820.3	5993.7	7700.2	10786.5	11347.3	10974.7
40°	8650.2	8666.8	8519.2	7973.2	7222.4	6774.1	6746.4	8338.5	11812.2	12540.9	12098.1
42.5°	9495.1	9513.6	9364.2	8960.1	8268.4	7829.3	7670.6	9120.6	12813.9	13823.0	13299.1
45°	10068.9	10183.2	10161.1	9838.3	9342.0	8886.4	8781.2	10102.1	13955.8	15182.6	14568.3
47.5°	10231.2	10336.4	10502.4	10546.7	10244.1	9795.8	9921.3	11284.6	15110.7	16544.1	15844.9
50°	9830.9	9928.7	10273.6	10733.0	10943.3	10804.9	11030.0	12552.0	16293.2	17901.9	17097.5
52.5°	9041.3	9140.9	9576.3	10303.2	11161.0	11596.4	12142.4	13800.9	17438.8	19187.7	18283.7
55°	7899.4	8004.5	8563.5	9386.3	10745.9	11922.9	13070.3	15048.0	18488.5	20344.4	19353.7
57.5°	6346.1	6423.6	7004.7	8155.8	9701.8	11598.2	13754.8	16409.4	19477.3	21480.7	20414.5
60°	4136.0	4204.3	4879.5	6163.4	7971.3	10513.5	13891.3	17927.7	20790.8	22958.4	21844.2
62.5°	2750.6	2796.7	3197.0	4139.7	5613.7	8430.7	13092.5	19139.7	22716.8	25530.1	24295.9
65°	1887.2	1933.3	2333.7	2990.4	3626.9	5576.8	10795.7	18979.2	24461.9	27572.2	26113.0
67.5°	1346.7	1385.4	1724.9	2344.7	2625.1	3239.5	7318.3	16927.8	24211.0	27649.7	26210.8
70°	964.8	987.0	1267.4	1826.3	2086.5	1946.3	4069.6	12946.7	21198.5	25531.9	24214.7
72.5°	675.2	682.6	880.0	1391.0	1680.6	1420.5	1937.0	8631.8	16033.1	20040.0	18772.6
75°	457.5	466.7	592.2	1020.2	1348.5	1084.7	1025.7	4628.6	9412.1	11092.7	9943.4
77.5°	280.4	284.1	381.9	697.3	1009.1	826.5	660.4	1961.0	3641.6	3575.2	3047.6
80°	158.7	158.7	243.5	433.5	688.1	533.1	463.0	833.8	1153.0	1012.8	892.9
82.5°	88.5	90.4	177.1	269.3	455.7	315.5	254.6	385.6	498.1	440.9	383.7
85°	36.9	40.6	108.8	127.3	217.7	156.8	103.3	162.3	184.5	164.2	119.9
87.5°	3.7	5.5	33.2	24.0	25.8	31.4	14.8	31.4	25.8	25.8	18.4
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°	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9	4244.9
2.5°	4272.5	4244.9	4174.8	4093.6	3986.6	3934.9	3864.8	3816.9	3776.3	3780.0	3743.1
5°	4355.6	4285.4	4128.6	3933.1	3689.6	3516.2	3331.7	3204.4	3101.1	3079.0	3029.1
7.5°	4469.9	4359.2	4084.4	3732.0	3320.6	3008.9	2730.3	2551.3	2424.1	2383.5	2342.9
10°	4617.5	4457.0	4027.2	3479.3	2887.1	2490.5	2191.6	2051.4	1964.7	1935.2	1913.0
12.5°	4789.1	4569.5	3951.5	3171.2	2440.7	2058.8	1868.8	1798.7	1771.0	1761.8	1756.2
15°	5004.9	4709.8	3837.2	2805.9	2062.5	1795.0	1713.8	1704.6	1708.3	1704.6	1702.7
17.5°	5261.3	4862.9	3650.8	2429.6	1807.9	1660.3	1630.8	1638.2	1647.4	1645.6	1641.9
20°	5541.8	5014.1	3412.9	2095.7	1634.5	1564.4	1547.8	1555.2	1562.5	1558.8	1557.0
22.5°	5860.9	5176.5	3149.1	1835.6	1518.3	1475.8	1457.4	1459.2	1459.2	1451.9	1448.2
25°	6242.8	5355.4	2872.3	1651.1	1429.7	1396.5	1374.4	1367.0	1355.9	1333.8	1330.1
27.5°	6698.4	5545.4	2606.7	1522.0	1359.6	1328.2	1302.4	1284.0	1256.3	1219.4	1215.7
30°	7211.3	5776.0	2381.6	1440.8	1304.3	1272.9	1243.4	1215.7	1175.1	1129.0	1125.3
32.5°	7814.5	6023.2	2217.4	1387.3	1254.5	1221.3	1186.2	1153.0	1108.7	1062.6	1064.4
35°	8534.0	6322.1	2121.5	1350.4	1215.7	1171.4	1132.7	1095.8	1062.6	1022.0	1018.3
37.5°	9314.3	6639.4	2092.0	1331.9	1189.9	1121.6	1077.4	1051.5	1047.8	1023.9	1022.0
40°	10168.5	7015.7	2114.1	1320.9	1162.2	1073.7	1025.7	1020.2	1029.4	987.0	988.8
42.5°	11072.4	7462.2	2151.0	1308.0	1123.5	1025.7	979.6	979.6	972.2	913.2	913.2
45°	12050.2	7976.9	2187.9	1276.6	1077.4	977.7	942.7	929.8	898.4	841.2	839.4
47.5°	13035.3	8500.8	2215.6	1219.4	1022.0	937.2	905.8	876.3	830.2	778.5	776.7
50°	13970.6	8971.2	2186.1	1134.5	959.3	898.4	865.2	824.6	774.8	739.8	734.2
52.5°	14806.3	9378.9	2060.6	1034.9	892.9	857.8	828.3	785.9	745.3	708.4	704.7
55°	15533.1	9709.1	1839.3	940.8	833.8	822.8	793.3	739.8	684.4	653.1	649.4
57.5°	16230.5	9960.0	1562.5	863.4	780.3	784.0	739.8	691.8	640.1	606.9	603.2
60°	17158.4	10295.8	1282.1	791.4	723.2	734.2	686.3	651.2	586.6	544.2	538.7
62.5°	18641.6	10817.9	1018.3	702.9	656.7	660.4	640.1	597.7	520.2	470.4	466.7
65°	19818.6	10626.0	802.5	606.9	581.1	586.6	586.6	540.5	457.5	400.3	394.8
67.5°	19685.8	9098.5	640.1	512.9	509.2	512.9	525.8	487.0	405.9	359.7	352.4
70°	18134.3	7237.1	512.9	426.1	442.7	433.5	470.4	444.6	365.3	319.1	313.6
72.5°	14797.1	5213.4	391.1	352.4	339.4	354.2	424.3	400.3	304.4	252.7	247.2
75°	8646.5	2781.9	291.5	278.6	245.4	295.2	376.3	341.3	232.4	186.3	180.8
77.5°	2815.2	970.4	214.0	204.8	182.6	238.0	321.0	287.8	190.0	147.6	142.0
80°	754.5	293.3	145.7	134.7	118.1	177.1	254.6	228.8	136.5	95.9	94.1
82.5°	302.5	123.6	84.9	75.6	64.6	121.8	201.1	184.5	101.5	60.9	60.9
85°	97.8	40.6	31.4	24.0	29.5	75.6	119.9	125.4	71.9	31.4	24.0
87.5°	12.9	5.5	5.5	7.4	5.5	12.9	36.9	35.1	20.3	3.7	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)