

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: P943315

Luminaire Tested: **GALN-SB7D-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66510 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 512.8
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

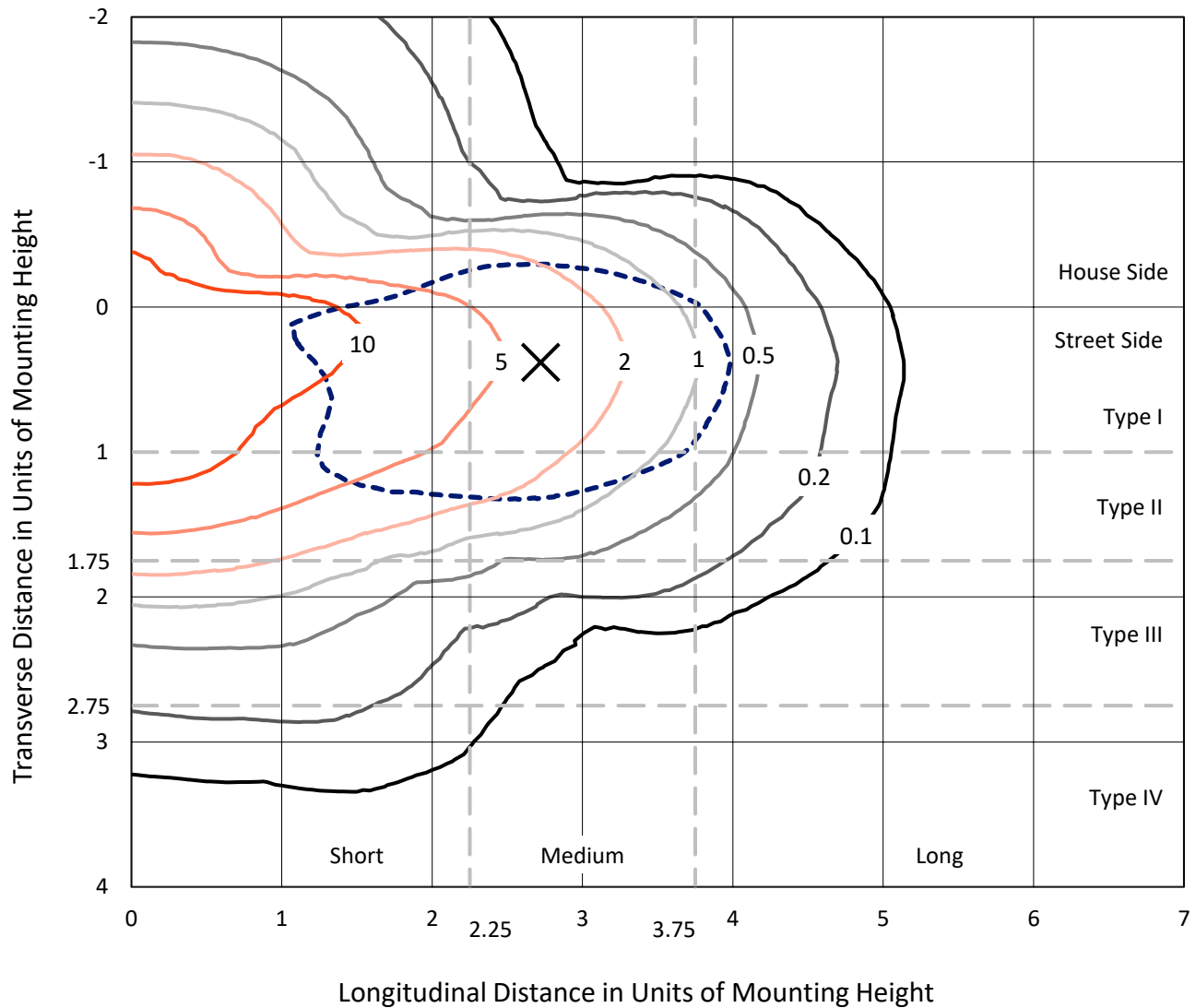


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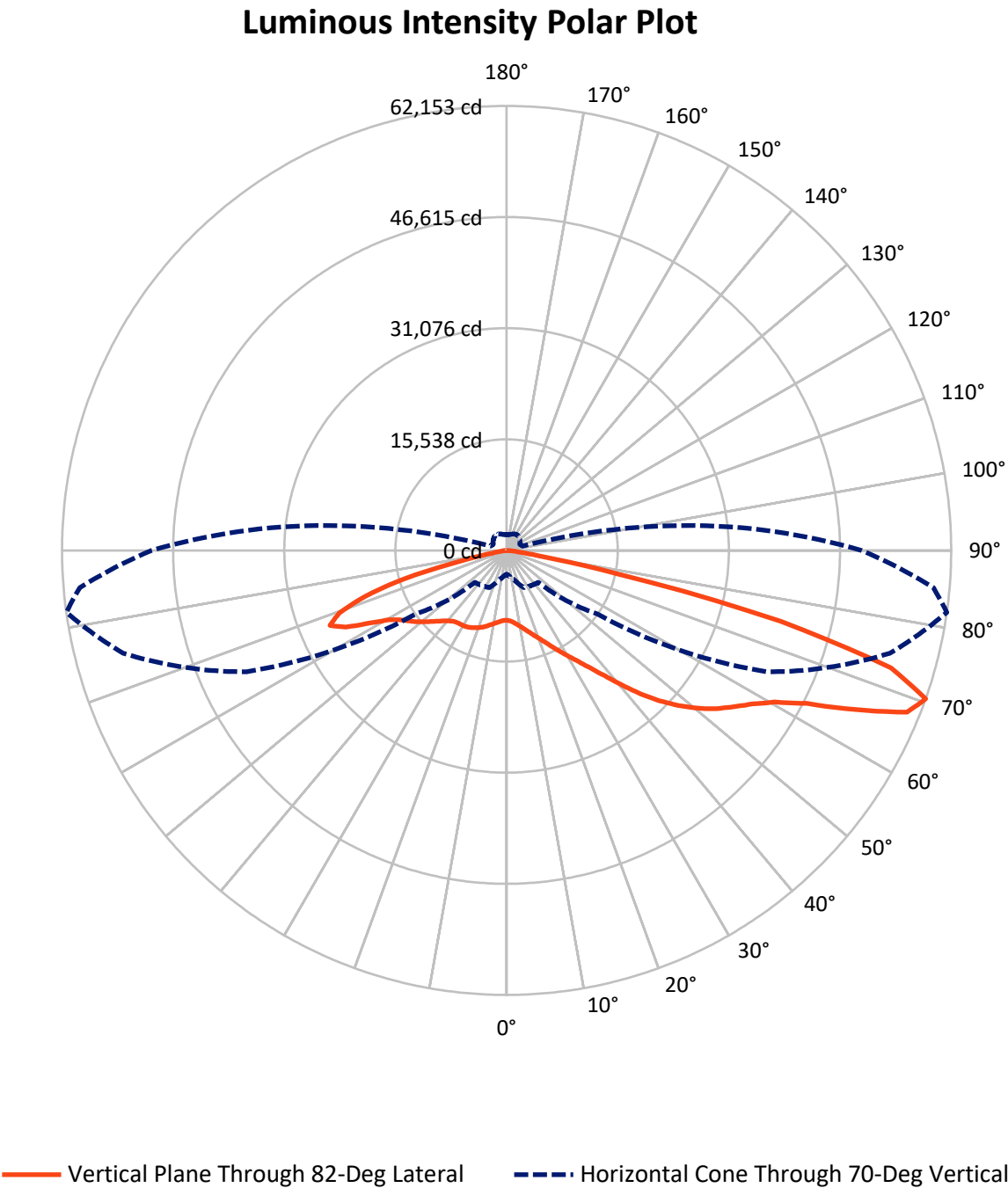
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16396.3	0.0	16396.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	50113.7	0.0	50113.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	66510.0	0.0	66510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.7	1.4
10°-20°	2645.2	4.0
20°-30°	4425.1	6.7
30°-40°	6913.2	10.4
40°-50°	11010.1	16.6
50°-60°	15321.8	23.0
60°-70°	16027.3	24.1
70°-80°	8376.8	12.6
80°-90°	869.8	1.3
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°	66510.0	100.0
0°-180°	66510.0	100.0

Coefficient of Utilization



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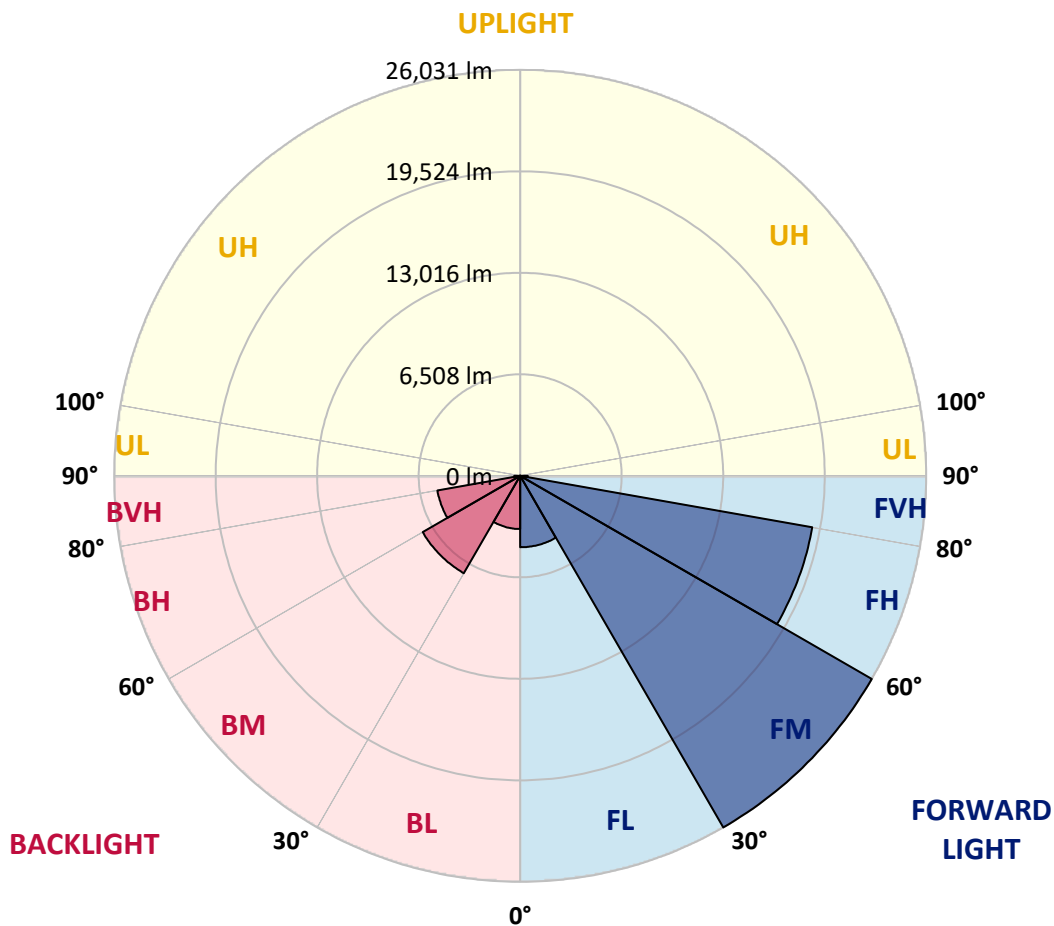
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4580.0	6.9			
FM	(30°-60°)	26031.3	39.1			
FH	(60°-80°)	19015.4	28.6			G5
FVH	(80°-90°)	486.9	0.7			G3/500
BL	(0°-30°)	3411.0	5.1	B4/5000		
BM	(30°-60°)	7213.7	10.8	B4/8500		
BH	(60°-80°)	5388.7	8.1	B5		G5
BVH	(80°-90°)	382.9	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2
2.5°	9984.1	10040.6	10022.9	10005.3	10005.3	9980.6	9977.1	9941.8	9913.5	9867.7	9857.1
5°	10111.2	10171.2	10164.1	10178.2	10224.1	10234.7	10245.3	10224.1	10167.6	10111.2	10086.5
7.5°	9998.2	10065.3	10086.5	10171.2	10312.3	10439.4	10534.7	10573.5	10520.6	10439.4	10400.6
10°	9617.1	9691.2	9765.3	9966.5	10217.1	10517.0	10771.1	10922.9	10912.3	10834.7	10767.6
12.5°	8844.2	8921.8	9080.6	9472.4	9931.2	10460.6	10933.5	11251.1	11360.5	11304.0	11187.6
15°	8226.6	8293.6	8413.6	8816.0	9412.4	10217.1	10993.5	11611.1	11889.9	11858.1	11717.0
17.5°	8208.9	8237.2	8311.3	8501.9	8960.7	9835.9	10930.0	11964.0	12496.9	12493.4	12316.9
20°	8519.5	8530.1	8572.4	8611.3	8872.4	9546.5	10767.6	12256.9	13178.1	13178.1	12987.5
22.5°	8950.1	8943.0	8985.4	8950.1	9077.1	9521.8	10665.3	12514.6	13936.8	13993.3	13753.3
25°	9595.9	9560.6	9550.0	9468.9	9493.6	9751.2	10778.2	12807.5	14836.8	14953.2	14653.3
27.5°	10457.0	10400.6	10361.8	10174.7	10111.2	10224.1	11124.1	13160.4	15839.1	16040.2	15659.1
30°	11579.3	11477.0	11420.5	11095.8	10866.4	10884.1	11646.4	13629.8	16887.3	17211.9	16728.4
32.5°	13111.0	12952.2	12800.4	12267.5	11847.5	11709.9	12320.5	14279.2	18023.7	18542.5	17921.3
35°	14826.2	14699.1	14536.8	13714.5	13068.7	12751.0	13231.0	15186.2	19354.2	20176.5	19368.3
37.5°	16477.9	16368.5	16446.1	15337.9	14505.0	14042.7	14423.9	16403.8	20995.2	22209.3	21182.3
40°	18186.0	18101.3	18111.9	17053.1	16082.6	15563.8	15870.8	17931.9	22876.3	24626.8	23363.3
42.5°	20042.4	19978.8	19767.1	18828.3	17737.8	17254.3	17536.6	19696.5	24895.0	27379.6	25756.1
45°	22121.1	22082.2	21884.6	20808.2	19558.9	19015.4	19396.5	21644.6	26924.3	29970.0	28159.5
47.5°	23917.4	23949.2	23924.5	23017.5	21722.3	20924.7	21379.9	23677.4	28812.4	32405.2	30464.1
50°	24782.1	24948.0	25191.5	24909.1	24104.5	23292.8	23381.0	25639.7	30612.3	34688.6	32673.4
52.5°	24330.3	24644.4	25307.9	25759.7	26070.2	25900.8	25664.4	27587.8	32306.4	36749.6	34762.7
55°	22646.9	23088.1	24189.2	25279.7	26864.3	28096.0	28406.6	29747.7	33958.0	38563.6	36739.0
57.5°	19580.0	20296.5	21284.6	23490.4	26158.5	29158.3	31604.0	32744.0	35708.5	40501.2	38807.2
60°	14321.5	15281.5	16509.6	19791.8	23688.0	28590.1	34325.1	37346.1	38196.6	43010.4	41499.9
62.5°	9165.3	9758.3	10887.6	13979.2	18457.8	25678.5	35158.0	43098.7	42414.0	47125.5	45537.4
65°	6274.9	6656.1	7690.1	9426.5	11932.2	19114.2	32927.5	47411.4	49112.4	53647.5	52440.5
67.5°	4559.7	4849.1	5731.4	7252.5	7774.8	11311.1	25551.5	47213.7	55623.8	60367.1	58489.5
70°	3324.5	3529.2	4270.3	5731.4	5982.0	6292.6	15479.1	40134.1	55482.7	62152.9	59904.8
72.5°	2463.4	2604.6	3102.2	4446.8	4842.1	4249.2	7661.9	29168.9	47676.1	56216.7	54413.3
75°	1782.2	1888.1	2255.2	3402.2	3875.1	3236.3	3822.1	17046.1	33255.7	39544.8	39862.4
77.5°	1362.3	1443.4	1683.4	2491.6	3102.2	2428.1	2371.6	7841.9	15768.5	15846.1	16735.5
80°	1094.1	1147.0	1277.6	1754.0	2378.7	1817.5	1545.8	3165.7	4983.2	4217.4	4425.6
82.5°	804.7	892.9	1079.9	1231.7	1701.1	1252.9	942.3	1598.7	1895.2	1630.5	1644.6
85°	458.8	518.8	652.9	882.3	1087.0	765.8	540.0	709.4	882.3	723.5	645.8
87.5°	162.3	211.8	229.4	345.9	472.9	317.6	208.2	204.7	289.4	215.3	180.0
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°	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2	9751.2
2.5°	9821.8	9804.1	9733.6	9638.3	9539.4	9444.2	9412.4	9345.3	9299.5	9274.8	9303.0
5°	10019.4	9963.0	9797.1	9585.3	9363.0	9123.0	8953.6	8798.3	8685.4	8579.5	8621.9
7.5°	10301.8	10202.9	9917.1	9546.5	9151.2	8752.4	8456.0	8230.1	8078.4	7979.5	8000.7
10°	10630.0	10478.2	10040.6	9486.5	8876.0	8304.2	7954.8	7760.7	7665.4	7612.5	7626.6
12.5°	11007.6	10792.3	10167.6	9348.9	8456.0	7803.1	7563.1	7506.6	7510.2	7513.7	7520.7
15°	11473.5	11173.5	10270.0	9048.9	7909.0	7418.4	7376.0	7467.8	7563.1	7609.0	7605.4
17.5°	11999.3	11575.8	10287.6	8554.8	7372.5	7171.3	7305.5	7503.1	7647.8	7711.3	7725.4
20°	12564.0	11985.2	10160.6	7856.0	6931.4	6970.2	7210.2	7464.3	7623.1	7704.3	7725.4
22.5°	13209.8	12422.8	9857.1	7121.9	6571.4	6751.4	7033.7	7280.8	7446.6	7527.8	7549.0
25°	13947.4	12913.4	9380.6	6504.3	6260.8	6504.3	6786.7	6991.4	7125.5	7199.6	7220.8
27.5°	14766.2	13425.1	8745.4	6013.8	5989.1	6250.2	6483.2	6642.0	6712.6	6769.0	6790.2
30°	15588.5	13891.0	7976.0	5643.2	5752.6	5999.7	6165.5	6236.1	6257.3	6267.9	6292.6
32.5°	16477.9	14293.3	7167.8	5336.2	5526.7	5756.1	5855.0	5886.7	5787.9	5720.8	5742.0
35°	17554.3	14723.8	6377.3	5092.6	5304.4	5502.0	5533.8	5505.6	5389.1	5251.5	5258.5
37.5°	18884.8	15260.3	5745.5	4919.7	5096.2	5226.8	5187.9	5180.9	5191.5	5029.1	5039.7
40°	20515.3	15959.1	5283.2	4785.6	4926.8	4955.0	4845.6	4905.6	4958.5	4711.5	4718.5
42.5°	22325.8	16802.6	4990.3	4693.8	4785.6	4718.5	4549.1	4616.2	4609.1	4284.5	4280.9
45°	24171.5	17720.1	4888.0	4626.8	4655.0	4520.9	4333.9	4351.5	4203.3	3910.4	3920.9
47.5°	26006.7	18704.8	4951.5	4570.3	4492.7	4340.9	4196.2	4118.6	3899.8	3681.0	3681.0
50°	27806.6	19738.9	5184.4	4457.4	4270.3	4182.1	4076.2	3938.6	3705.7	3518.6	3504.5
52.5°	29475.9	20780.0	5445.6	4270.3	3991.5	4044.5	3977.4	3818.6	3589.2	3398.6	3402.2
55°	31057.0	21821.1	5547.9	4012.7	3730.4	3924.5	3885.7	3592.7	3317.5	3162.2	3148.1
57.5°	32779.3	23074.0	5435.0	3684.5	3518.6	3786.8	3638.6	3313.9	3155.1	3038.6	3028.1
60°	35165.0	25039.7	5191.5	3278.6	3317.5	3582.1	3328.0	3193.9	3021.0	2890.4	2883.4
62.5°	39128.3	28706.6	4799.7	2876.3	3081.0	3278.6	3179.8	3045.7	2869.2	2742.2	2742.2
65°	44986.8	33802.7	4062.1	2562.2	2816.3	2982.2	3021.0	2886.9	2703.4	2569.3	2576.3
67.5°	49927.7	37000.2	3073.9	2301.0	2544.6	2742.2	2851.6	2721.0	2526.9	2396.3	2399.9
70°	49655.9	34678.0	2346.9	2043.4	2304.6	2505.7	2646.9	2544.6	2336.3	2212.8	2223.4
72.5°	44104.5	29010.1	1898.7	1782.2	2061.1	2258.7	2428.1	2350.5	2138.7	2018.7	2018.7
75°	32401.6	20592.9	1517.6	1517.6	1757.5	2001.1	2188.1	2138.7	1944.6	1859.9	1835.2
77.5°	13658.0	8639.5	1189.3	1259.9	1461.1	1718.7	1951.7	1969.3	1799.9	1905.8	1729.3
80°	3631.6	2382.2	907.0	991.7	1147.0	1418.7	1697.5	1690.5	1507.0	1408.2	1309.3
82.5°	1383.4	938.8	645.8	698.8	829.4	1087.0	1344.6	1387.0	1203.5	1041.1	1041.1
85°	532.9	402.3	398.8	420.0	483.5	720.0	1016.4	1051.7	907.0	769.4	794.1
87.5°	137.6	120.0	148.2	141.2	222.3	384.7	582.3	603.5	554.1	321.2	458.8
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)