

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: P957331

Luminaire Tested: **GALN-SB9D-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-722-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76104 lumens
Efficiency: N/A
Efficacy: 115.7 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): 658
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



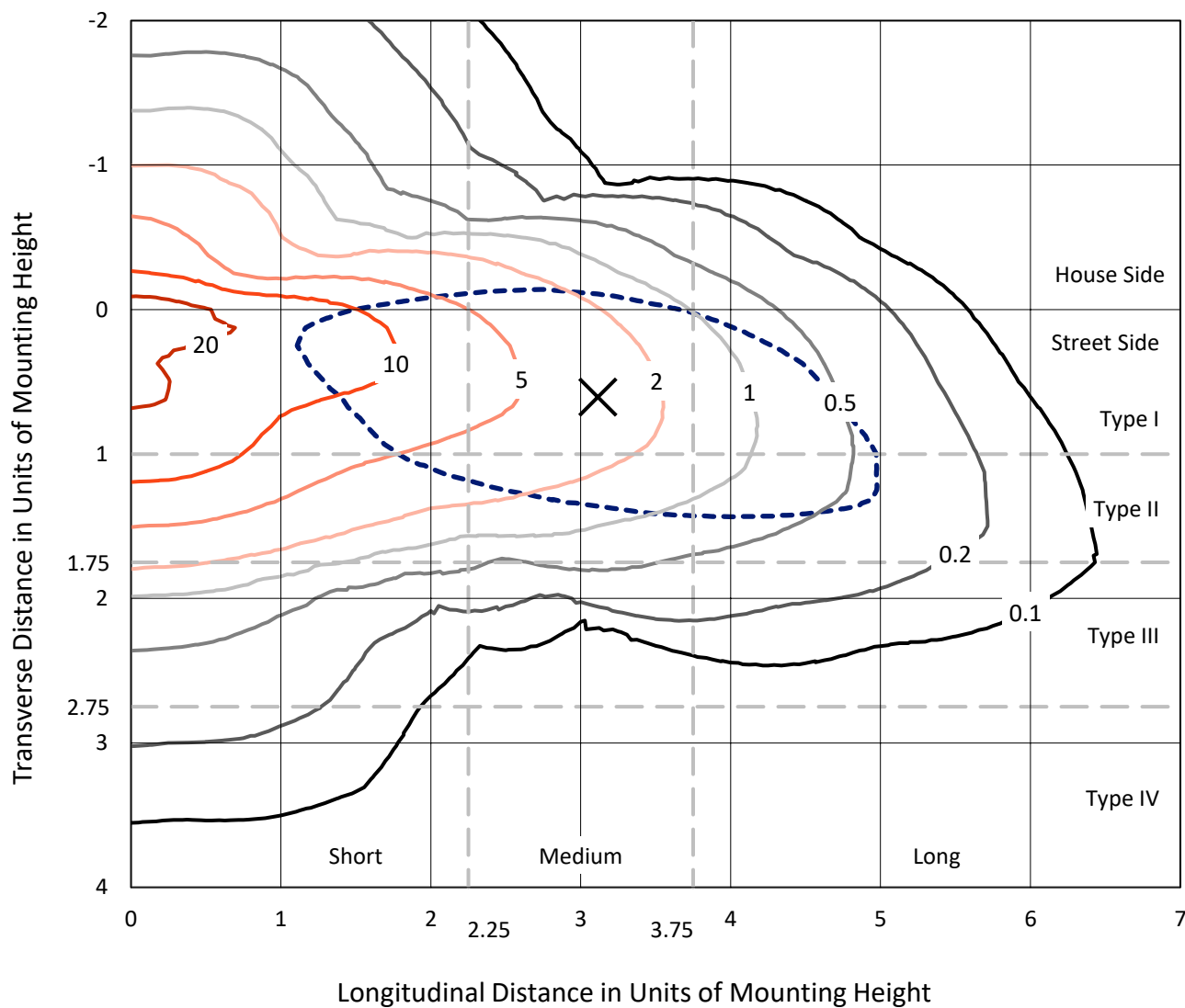
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

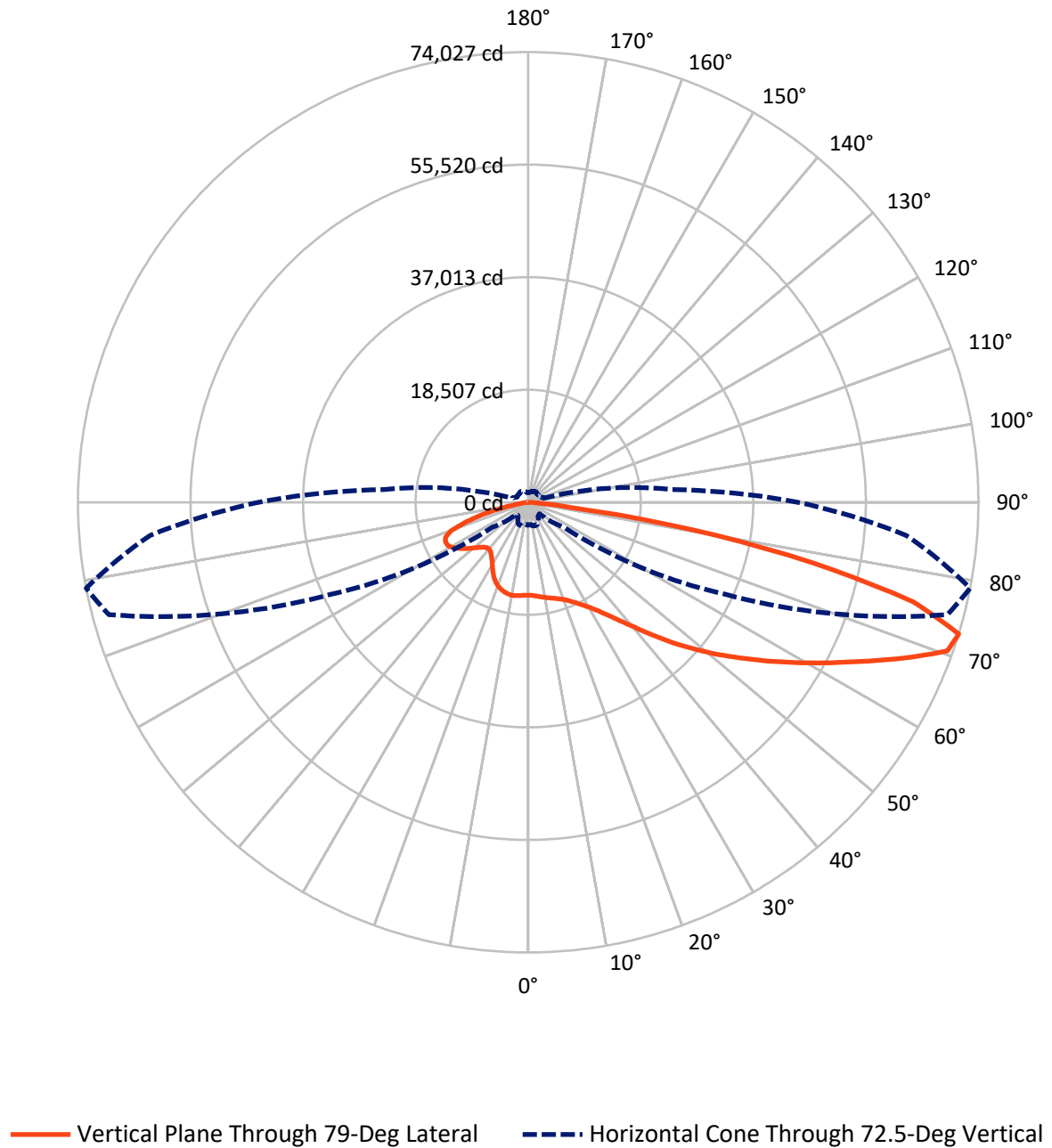


Based on 25 foot mounting height. Maximum calculated value = 24.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16747.1	0.0	16747.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	59356.9	0.0	59356.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	76104.0	0.0	76104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1386.7	1.8
10°-20°	3625.6	4.8
20°-30°	5850.2	7.7
30°-40°	8780.4	11.5
40°-50°	12455.4	16.4
50°-60°	15729.5	20.7
60°-70°	15975.5	21.0
70°-80°	10888.0	14.3
80°-90°	1412.6	1.9
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°	76104.0	100.0
0°-180°	76104.0	100.0

Coefficient of Utilization



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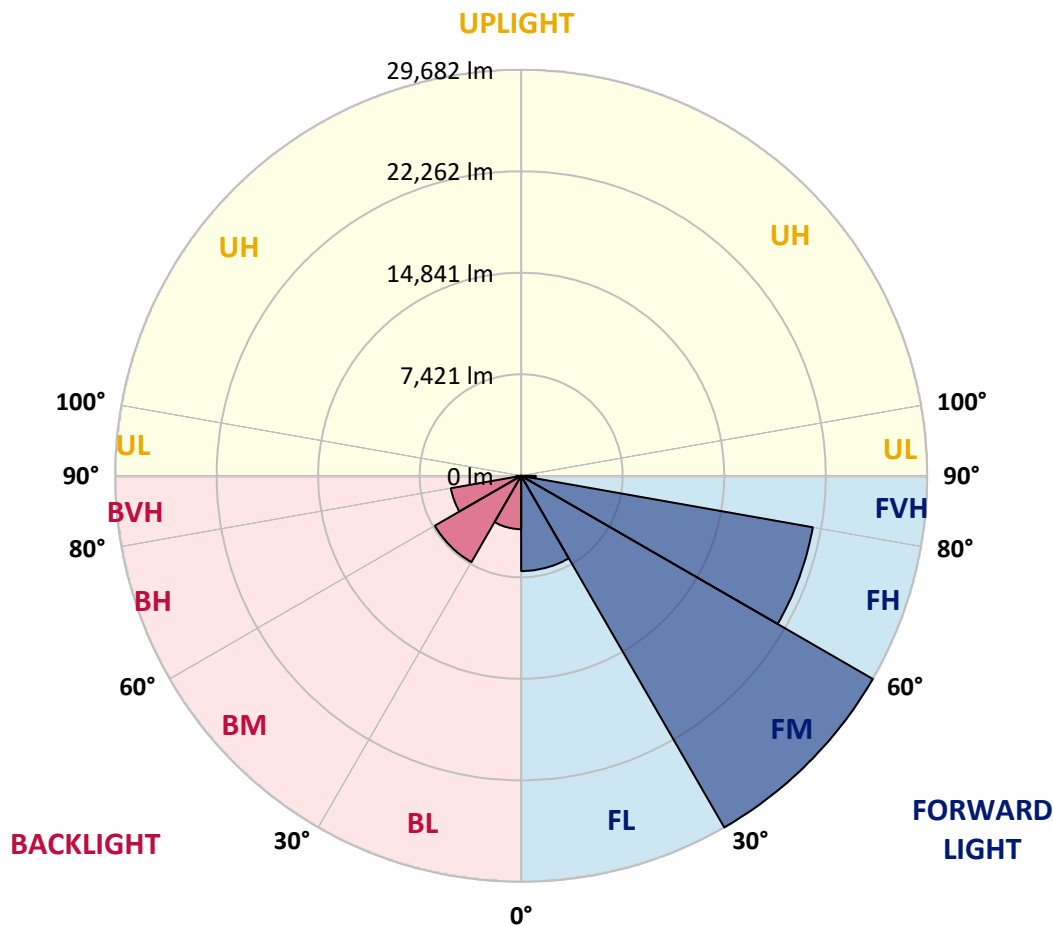
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6961.7	9.1			
FM	(30°-60°)	29682.1	39.0			
FH	(60°-80°)	21649.0	28.4			G5
FVH	(80°-90°)	1064.1	1.4			G5
BL	(0°-30°)	3900.9	5.1	B4/5000		
BM	(30°-60°)	7283.2	9.6	B4/8500		
BH	(60°-80°)	5214.5	6.9	B5		G5
BVH	(80°-90°)	348.5	0.5			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°	79°	85°
0°	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2
2.5°	15285.2	15212.7	15257.0	15240.9	15261.1	15285.2	15293.3	15305.3	15345.6	15341.6	15337.5
5°	15253.0	15180.5	15240.9	15220.8	15273.1	15329.5	15377.8	15422.1	15486.5	15514.7	15474.4
7.5°	15184.6	15136.3	15196.6	15257.0	15353.6	15438.2	15506.6	15607.3	15699.8	15715.9	15744.1
10°	14786.0	14749.8	14890.7	15047.7	15313.4	15542.8	15691.8	15808.5	15909.2	15925.3	15965.5
12.5°	14371.4	14327.1	14484.1	14697.5	15128.2	15542.8	15856.8	16009.8	16098.4	16150.7	16211.1
15°	14303.0	14266.7	14355.3	14540.5	14898.7	15434.2	15969.6	16251.3	16327.8	16388.2	16412.4
17.5°	14633.1	14564.6	14600.9	14665.3	14874.6	15333.5	16058.1	16525.1	16641.8	16706.2	16706.2
20°	15397.9	15301.3	15244.9	15116.1	15079.9	15349.6	16050.1	16855.2	17008.2	17088.7	17108.8
22.5°	16416.4	16352.0	16231.2	15905.1	15550.9	15546.9	16203.0	17277.9	17563.7	17640.2	17591.9
25°	17648.2	17551.6	17398.6	16955.8	16275.5	15937.4	16460.7	17817.3	18296.4	18316.5	18175.6
27.5°	19065.2	18920.3	18711.0	18127.3	17209.4	16549.2	16855.2	18437.3	19137.7	19129.7	18839.8
30°	20558.7	20413.8	20192.4	19483.9	18328.6	17374.5	17402.7	19105.5	20136.1	20091.8	19596.6
32.5°	21649.7	21541.0	21496.7	20949.2	19616.8	18348.7	18030.7	19846.2	21367.9	21327.6	20635.2
35°	22487.0	22346.1	22398.4	22120.7	21021.7	19439.6	18799.6	20727.8	22865.4	22861.4	21999.9
37.5°	23316.3	23191.5	23235.8	23050.6	22322.0	20824.4	19737.5	21806.7	24721.2	24809.8	23650.4
40°	24073.1	23940.2	24117.4	23944.3	23332.4	22297.8	20804.3	23026.4	26870.9	27040.0	25647.1
42.5°	24528.0	24423.3	24717.2	24721.2	24210.0	23541.7	21975.8	24371.0	29358.7	29737.1	28102.7
45°	24685.0	24648.8	25091.6	25184.2	24986.9	24262.3	23030.5	25836.3	32039.8	32716.1	30900.5
47.5°	24515.9	24447.5	25059.4	25401.5	25558.5	24600.4	23904.0	27422.4	34777.2	35767.5	33951.9
50°	23662.5	23529.6	24439.4	25160.0	25719.6	24821.9	24785.6	29254.0	37889.0	38971.8	37019.4
52.5°	22128.7	22028.1	23062.7	24314.6	25365.3	24930.5	25775.9	31254.8	40843.7	42244.7	40163.4
55°	20168.3	20035.4	21174.7	22809.1	24483.7	24894.3	26766.2	33493.0	44329.9	45751.0	43412.1
57.5°	17060.5	16794.8	18236.0	20168.3	23046.6	24850.0	27796.8	35719.2	47872.4	49575.3	46878.1
60°	12527.7	12133.2	13900.4	16191.0	20236.7	24419.3	29072.9	38215.0	52123.5	53657.2	50662.2
62.5°	7294.4	7064.9	8220.3	10357.9	15253.0	21883.2	29789.4	41117.5	56302.1	57912.3	54381.8
65°	5664.0	5599.6	5700.3	5865.3	8490.0	16384.2	27579.4	43947.5	61615.8	62743.0	58258.5
67.5°	5180.9	5132.6	5176.9	4867.0	4307.4	9126.0	21818.8	44664.0	67308.0	67992.4	61652.1
70°	4605.3	4548.9	4693.9	4428.2	3389.6	4150.4	14097.7	42063.5	71836.8	73121.0	64232.5
72.5°	3751.9	3687.5	4025.6	3904.8	2854.2	2664.9	7081.0	35884.2	71361.8	74026.8	62384.7
75°	2882.3	2846.1	3248.7	3349.3	2326.8	2097.3	3397.6	26673.6	62799.4	65484.4	53765.9
77.5°	2238.2	2210.1	2415.4	2781.7	1875.9	1626.3	2089.3	16919.6	47325.0	47796.0	37051.6
80°	1678.7	1598.2	1787.4	2153.7	1461.3	1187.6	1417.0	9866.7	29914.2	27116.4	16126.6
82.5°	1050.7	1010.4	1167.4	1437.1	1030.6	817.2	921.9	5450.7	11988.2	7060.9	3111.8
85°	599.8	583.7	636.0	821.2	559.6	471.0	527.4	2407.3	2189.9	1505.6	938.0
87.5°	241.5	233.5	289.8	366.3	205.3	173.1	185.2	579.7	483.1	446.8	310.0
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°	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2	15277.2
2.5°	15321.4	15321.4	15265.1	15176.5	15075.9	15011.5	14906.8	14878.6	14769.9	14737.7	14790.1
5°	15506.6	15474.4	15301.3	15051.7	14709.5	14395.5	14049.3	13832.0	13526.0	13417.3	13497.8
7.5°	15740.1	15651.5	15353.6	14806.2	14089.6	13385.1	12652.5	12096.9	11565.6	11376.3	11400.5
10°	15953.5	15828.7	15321.4	14363.3	13123.5	11903.7	10736.3	9919.1	9299.1	9045.5	9101.9
12.5°	16166.8	15937.4	15108.1	13626.7	11750.7	10096.2	8852.3	8216.3	7833.8	7527.9	7628.5
15°	16368.1	16046.0	14778.0	12640.4	10245.2	8566.5	7648.6	7141.4	6835.5	6634.2	6670.4
17.5°	16601.6	16138.6	14282.8	11388.4	8812.0	7507.7	6759.0	6453.0	6392.7	6368.5	6384.6
20°	16927.7	16223.2	13630.7	9987.5	7757.3	6662.4	6275.9	6247.7	6243.7	6231.6	6271.9
22.5°	17277.9	16323.8	12769.2	8715.4	6859.6	6135.0	6066.6	6010.2	5974.0	5970.0	6014.2
25°	17692.5	16356.0	11690.3	7672.8	6094.8	5885.4	5804.9	5720.4	5696.2	5696.2	5720.4
27.5°	18095.1	16247.3	10434.4	6767.0	5664.0	5656.0	5551.3	5523.1	5519.1	5531.2	5563.4
30°	18497.6	16042.0	9186.4	5929.7	5414.4	5414.4	5378.2	5398.3	5414.4	5454.7	5482.9
32.5°	19041.1	15824.6	8143.8	5309.8	5197.1	5156.8	5193.0	5233.3	5249.4	5301.7	5346.0
35°	19838.2	15671.7	7314.5	4971.6	4971.6	4919.3	4939.4	4931.4	4895.1	4871.0	4927.3
37.5°	20892.9	15663.6	6630.2	4814.6	4782.4	4774.4	4778.4	4726.1	4585.2	4416.1	4420.1
40°	22160.9	15881.0	6102.8	4705.9	4681.8	4730.1	4705.9	4565.0	4178.6	3884.7	3876.7
42.5°	23863.8	16500.9	5764.7	4573.1	4645.5	4705.9	4609.3	4122.2	3860.6	3663.3	3655.2
45°	25868.5	17507.3	5591.6	4432.2	4577.1	4649.6	4182.6	3969.2	3759.9	3522.4	3506.3
47.5°	28138.9	18775.4	5551.3	4299.3	4424.1	4468.4	4001.4	3904.8	3667.3	3409.7	3389.6
50°	30610.7	20277.0	5660.0	4142.3	4202.7	4049.8	3941.1	3852.5	3606.9	3353.3	3325.1
52.5°	33166.9	21931.5	5877.4	3929.0	3981.3	3812.2	3916.9	3840.4	3570.7	3228.5	3204.4
55°	35678.9	23598.1	6086.7	3679.4	3755.9	3598.9	3848.5	3792.1	3405.7	3019.2	2999.1
57.5°	38231.1	25256.6	6292.0	3458.0	3538.5	3393.6	3739.8	3663.3	3220.5	2826.0	2817.9
60°	40884.0	26866.9	6388.6	3244.6	3301.0	3204.4	3574.7	3441.9	3011.1	2628.7	2616.6
62.5°	43367.8	28207.4	6231.6	3031.3	3067.5	3027.3	3357.4	3180.2	2801.8	2407.3	2403.3
65°	45859.6	29004.5	5748.6	2821.9	2830.0	2809.9	3051.4	2898.4	2556.3	2214.1	2189.9
67.5°	48118.0	29451.3	4979.7	2596.5	2576.4	2568.3	2765.6	2592.5	2318.7	2020.9	1996.7
70°	48597.1	28316.1	3804.2	2330.8	2330.8	2310.7	2451.6	2274.5	2057.1	1815.5	1807.5
72.5°	44386.3	23819.5	2701.2	2028.9	2061.1	2020.9	2137.6	1988.6	1791.4	1630.4	1582.1
75°	35791.6	17467.1	1964.5	1718.9	1775.3	1706.9	1815.5	1710.9	1541.8	1537.8	1384.8
77.5°	24592.4	10800.7	1425.1	1417.0	1457.3	1368.7	1493.5	1437.1	1284.2	1215.7	1139.2
80°	10494.7	4307.4	1038.6	1095.0	1095.0	1014.5	1159.4	1175.5	1042.6	1010.4	1010.4
82.5°	2089.3	1223.8	728.6	752.8	708.5	684.4	821.2	909.8	1256.0	1396.9	1400.9
85°	628.0	450.9	438.8	410.6	362.3	366.3	483.1	913.8	1127.2	644.1	555.5
87.5°	173.1	112.7	116.7	92.6	76.5	100.6	165.0	692.4	378.4	161.0	136.9
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)