

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: P457331

Luminaire Tested: **GALN-SA8C-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45031 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 429
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

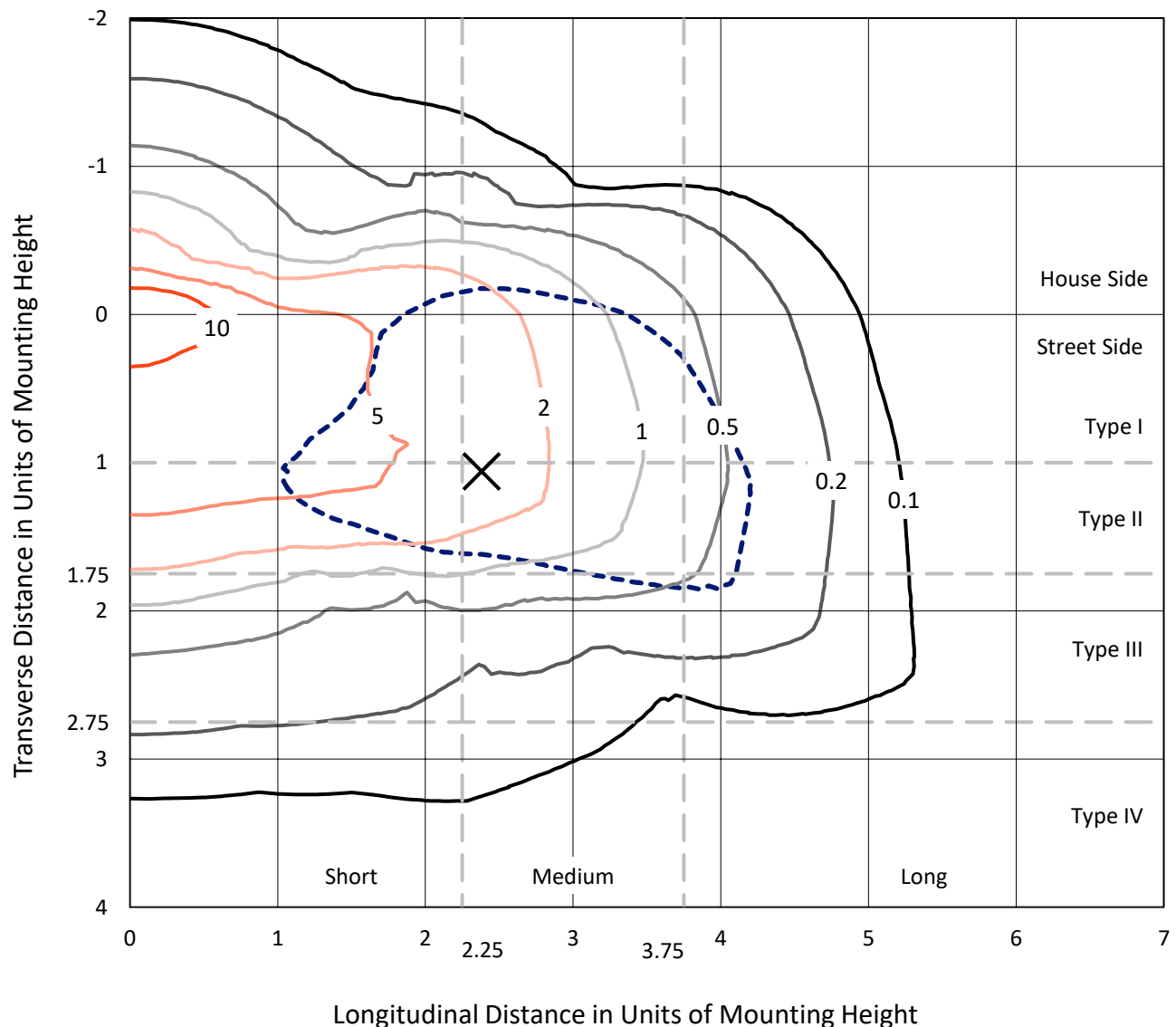


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

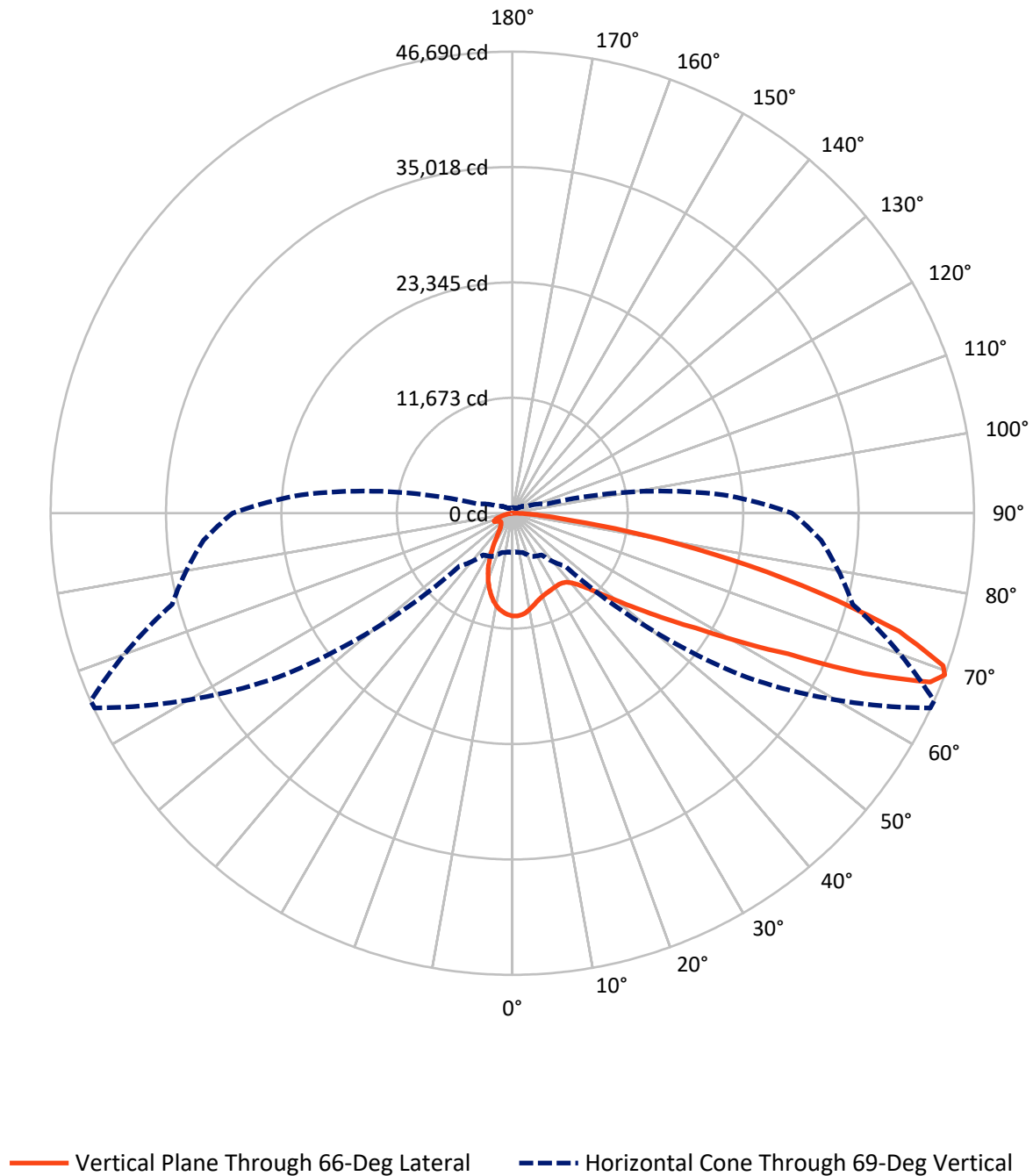


Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8468.6	0.0	8468.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	36562.4	0.0	36562.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	45031.0	0.0	45031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.0	2.0
10°-20°	2141.9	4.8
20°-30°	2915.9	6.5
30°-40°	3918.4	8.7
40°-50°	5850.8	13.0
50°-60°	9306.7	20.7
60°-70°	11446.7	25.4
70°-80°	7447.7	16.5
80°-90°	1099.8	2.4
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°	45031.0	100.0
0°-180°	45031.0	100.0

Coefficient of Utilization



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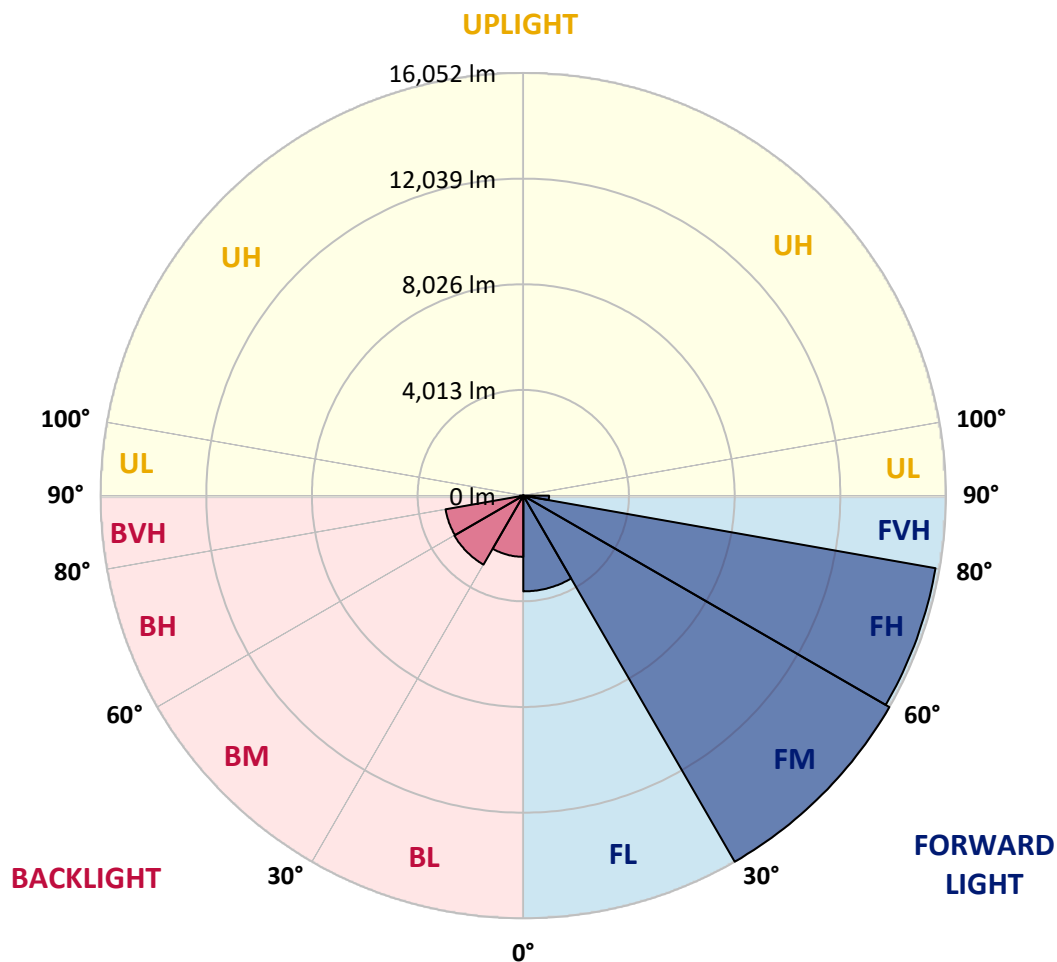
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3636.2	8.1			
FM	(30°-60°)	16052.2	35.6			
FH	(60°-80°)	15896.2	35.3			G5
FVH	(80°-90°)	977.8	2.2			G5
BL	(0°-30°)	2324.7	5.2	B3/2500		
BM	(30°-60°)	3023.7	6.7	B3/5000		
BH	(60°-80°)	2998.3	6.7	B4/5000		G4/5000
BVH	(80°-90°)	122.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9
2.5°	10034.8	10074.7	10119.6	10169.5	10264.2	10316.6	10354.0	10396.4	10401.4	10423.8	10406.4
5°	9294.2	9341.6	9408.9	9503.7	9645.8	9867.7	10097.2	10284.2	10306.6	10411.4	10441.3
7.5°	8675.7	8703.2	8758.0	8910.1	9112.1	9359.0	9693.2	10072.2	10127.1	10376.5	10463.7
10°	8172.0	8199.4	8264.3	8421.4	8620.9	8930.1	9296.7	9795.4	9840.3	10269.2	10468.7
12.5°	7795.4	7820.4	7890.2	8044.8	8274.2	8563.5	8967.5	9496.2	9561.0	10127.1	10421.4
15°	7508.7	7556.0	7613.4	7740.6	7982.5	8261.8	8653.3	9221.9	9274.2	9977.5	10388.9
17.5°	7386.5	7408.9	7448.8	7566.0	7743.1	8017.4	8411.4	9007.4	9069.7	9872.7	10381.5
20°	7391.5	7413.9	7421.4	7486.2	7613.4	7850.3	8239.3	8837.8	8912.6	9780.5	10393.9
22.5°	7561.0	7563.5	7536.1	7513.6	7563.5	7760.5	8117.1	8710.6	8797.9	9740.6	10403.9
25°	7822.9	7867.8	7827.9	7723.1	7630.9	7725.6	8069.8	8640.8	8723.1	9683.2	10391.4
27.5°	8246.8	8254.3	8221.9	8079.7	7840.3	7770.5	8049.8	8588.5	8658.3	9640.8	10329.1
30°	8815.4	8792.9	8763.0	8605.9	8229.4	7942.6	8092.2	8541.1	8613.4	9578.5	10254.3
32.5°	9391.4	9461.3	9433.8	9249.3	8760.5	8276.7	8229.4	8536.1	8595.9	9531.1	10172.0
35°	10002.4	10034.8	10164.5	10069.7	9568.5	8817.9	8486.2	8613.4	8660.8	9533.6	10114.6
37.5°	10481.2	10568.5	10872.7	10955.0	10483.7	9533.6	8902.7	8832.8	8852.8	9655.8	10137.1
40°	11059.8	11209.4	11600.9	11937.5	11628.3	10463.7	9610.9	9239.3	9264.3	9950.0	10284.2
42.5°	11792.9	11897.6	12423.8	12880.2	12830.3	11693.2	10468.7	9905.1	9917.6	10536.1	10695.7
45°	12650.8	12800.4	13391.4	14077.2	14194.4	13084.7	11708.1	10912.6	10905.1	11446.3	11463.7
47.5°	13748.0	13840.3	14426.3	15174.4	15648.2	14832.8	13211.9	12359.0	12279.2	12773.0	12630.8
50°	14758.0	14902.6	15346.5	16164.4	17344.0	16880.1	15189.4	14234.3	14047.3	14508.6	14269.2
52.5°	15181.9	15334.0	15708.1	16723.0	18797.8	19528.5	17700.6	16471.2	16159.5	16513.6	16426.3
55°	14446.3	14643.3	14992.4	16226.8	19436.2	22583.3	21087.1	19057.2	18830.3	18678.1	18703.1
57.5°	12468.7	12655.7	13127.1	14488.6	18673.1	24800.3	25922.5	22381.3	21895.1	21194.3	21314.0
60°	9491.2	9608.4	9852.8	11361.5	16411.3	25376.3	31413.7	26583.3	26274.1	23700.5	23785.3
62.5°	6740.6	6872.8	7042.3	7795.4	12014.9	23752.9	35712.9	32451.1	31346.4	26296.5	26214.2
65°	5473.8	5384.0	5588.5	5940.1	7049.8	18408.8	36680.5	40595.6	39074.5	29715.4	28573.3
67.5°	4501.2	4406.4	4608.4	5234.4	5361.5	10685.7	33194.2	45882.4	45578.1	33433.6	30969.8
69°	3985.0	3935.1	4112.2	4825.4	5147.1	7588.5	28917.4	46618.0	46690.4	35625.6	31338.9
70°	3591.0	3610.9	3783.0	4618.4	5049.8	6256.8	24715.5	45603.1	46216.5	36720.4	30939.9
72.5°	2643.4	2685.8	2925.2	3825.4	4957.6	5309.2	14708.1	39832.6	40917.3	36785.2	28304.0
75°	1847.9	1827.9	2039.9	2880.3	4683.2	5261.8	8638.3	30805.2	32034.6	31795.2	23782.8
77.5°	1209.5	1241.9	1411.5	2034.9	3940.1	5221.9	5630.9	21855.2	22653.2	21264.1	14067.2
80°	852.9	850.4	945.1	1389.0	2922.7	5017.4	4610.9	13775.4	13573.4	8356.5	4172.0
82.5°	488.8	523.7	633.4	977.5	1955.1	4416.4	4241.9	6588.5	6014.9	2381.5	1409.0
85°	271.8	284.3	376.6	591.0	1142.1	3326.7	3703.2	2997.5	2827.9	995.0	606.0
87.5°	87.3	94.8	157.1	299.2	518.7	1571.1	2097.2	1384.0	1276.8	359.1	244.4
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°	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9	10398.9
2.5°	10413.9	10443.8	10364.0	10286.7	10216.9	10119.6	10032.3	9960.0	9910.1	9902.7	9877.7
5°	10448.8	10451.3	10299.2	10094.7	9895.2	9675.7	9448.8	9286.7	9134.6	9049.8	9007.4
7.5°	10473.7	10451.3	10177.0	9845.3	9461.3	9062.3	8663.3	8344.1	8097.2	7999.9	8037.3
10°	10463.7	10393.9	9992.4	9461.3	8902.7	8306.7	7733.1	7284.2	6872.8	6660.8	6665.8
12.5°	10408.9	10294.2	9718.1	9029.8	8209.4	7411.4	6533.6	5927.6	5451.3	5169.5	5082.2
15°	10361.5	10162.0	9396.4	8443.8	7423.9	6284.2	5214.4	4466.3	4067.3	3845.4	3842.9
17.5°	10311.6	10034.8	9044.8	7822.9	6521.1	5054.8	3932.6	3361.6	3174.5	3197.0	3159.6
20°	10259.3	9885.2	8678.2	7132.1	5421.4	3770.5	2945.1	2713.2	2765.6	2867.8	2882.8
22.5°	10199.4	9725.6	8284.2	6371.5	4264.3	2837.9	2389.0	2354.1	2488.8	2648.4	2670.8
25°	10107.1	9526.1	7788.0	5576.0	3289.2	2286.8	2092.3	2117.2	2249.4	2384.0	2399.0
27.5°	9977.5	9279.2	7286.7	4583.5	2471.3	1962.6	1912.7	1945.1	2010.0	2092.3	2112.2
30°	9802.9	8999.9	6710.7	3725.7	1980.0	1800.5	1780.5	1798.0	1835.4	1870.3	1880.3
32.5°	9628.3	8730.6	6129.6	2852.8	1765.6	1693.3	1673.3	1673.3	1673.3	1678.3	1680.8
35°	9466.2	8476.2	5506.2	2221.9	1653.4	1608.5	1581.0	1551.1	1546.1	1528.7	1528.7
37.5°	9376.5	8244.3	4842.8	1860.3	1571.1	1538.6	1501.2	1451.4	1423.9	1426.4	1421.4
40°	9393.9	8092.2	4239.4	1655.8	1503.7	1468.8	1411.5	1354.1	1336.6	1336.6	1331.7
42.5°	9590.9	8042.3	3660.8	1548.6	1438.9	1399.0	1326.7	1274.3	1264.3	1261.8	1266.8
45°	10044.8	8164.5	3142.1	1478.8	1384.0	1324.2	1251.9	1204.5	1194.5	1194.5	1192.0
47.5°	10930.1	8561.0	2770.5	1433.9	1344.1	1266.8	1192.0	1144.6	1127.2	1122.2	1122.2
50°	12306.6	9421.4	2493.7	1394.0	1294.3	1214.5	1137.1	1082.3	1054.9	1052.4	1049.9
52.5°	14219.3	10763.0	2386.5	1364.1	1239.4	1159.6	1074.8	1022.4	987.5	980.0	975.1
55°	16456.2	12635.8	2533.6	1341.6	1182.0	1097.2	1010.0	955.1	922.7	907.7	905.2
57.5°	19047.2	14885.2	3092.2	1311.7	1129.7	1029.9	945.1	890.3	855.4	837.9	832.9
60°	21373.9	17196.9	4067.3	1294.3	1084.8	957.6	870.3	820.4	788.0	770.6	768.1
62.5°	23930.0	19401.3	5231.9	1341.6	1064.8	887.8	800.5	755.6	728.2	710.7	710.7
65°	26660.6	21608.3	6002.4	1501.2	1094.8	832.9	725.7	688.3	663.3	650.9	648.4
67.5°	28501.0	22371.4	4945.1	1665.8	1169.6	773.1	653.4	623.4	608.5	596.0	596.0
69°	28301.5	21406.3	3648.3	1708.2	1192.0	743.1	613.5	591.0	571.1	566.1	561.1
70°	27670.6	20306.6	3057.3	1680.8	1174.6	715.7	588.5	561.1	543.6	538.6	536.2
72.5°	24645.7	17610.8	2276.8	1461.3	1000.0	620.9	521.2	496.3	481.3	473.8	473.8
75°	20476.1	14393.9	1778.0	1162.1	783.0	523.7	446.4	426.4	414.0	409.0	406.5
77.5°	11476.2	8037.3	1276.8	910.2	593.5	423.9	374.1	356.6	344.1	339.1	339.1
80°	3197.0	2296.7	750.6	601.0	404.0	321.7	296.8	284.3	266.8	254.4	261.8
82.5°	1204.5	995.0	428.9	361.6	256.9	214.5	207.0	197.0	189.5	172.1	172.1
85°	586.0	483.8	274.3	192.0	142.1	112.2	107.2	102.2	97.3	84.8	87.3
87.5°	202.0	214.5	119.7	69.8	42.4	27.4	22.4	12.5	12.5	12.5	12.5
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)