

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: P454433

Luminaire Tested: **GALN-SA5C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34897 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

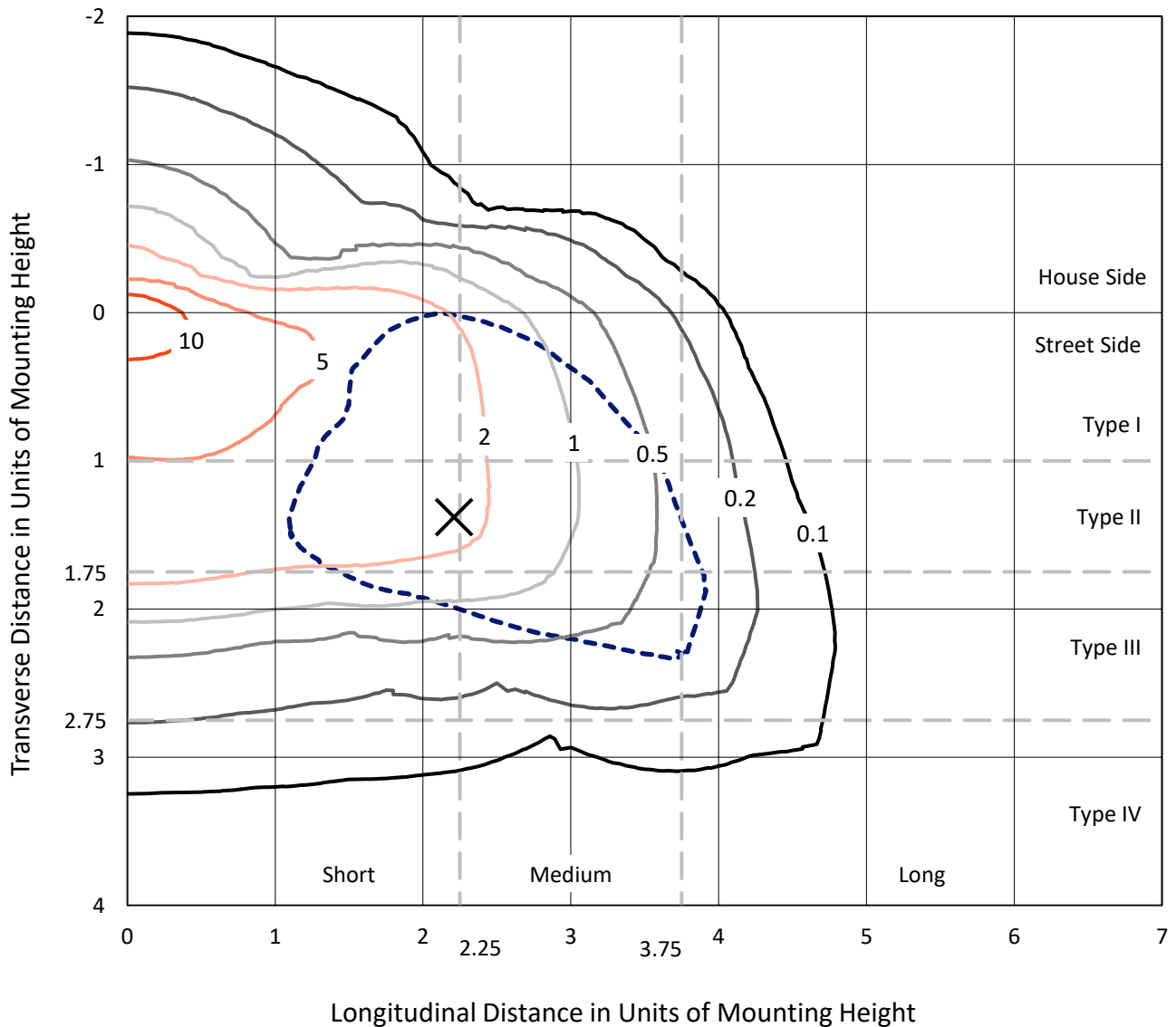
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454433
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Iso-Footcandle Lines of Horizontal Illumination

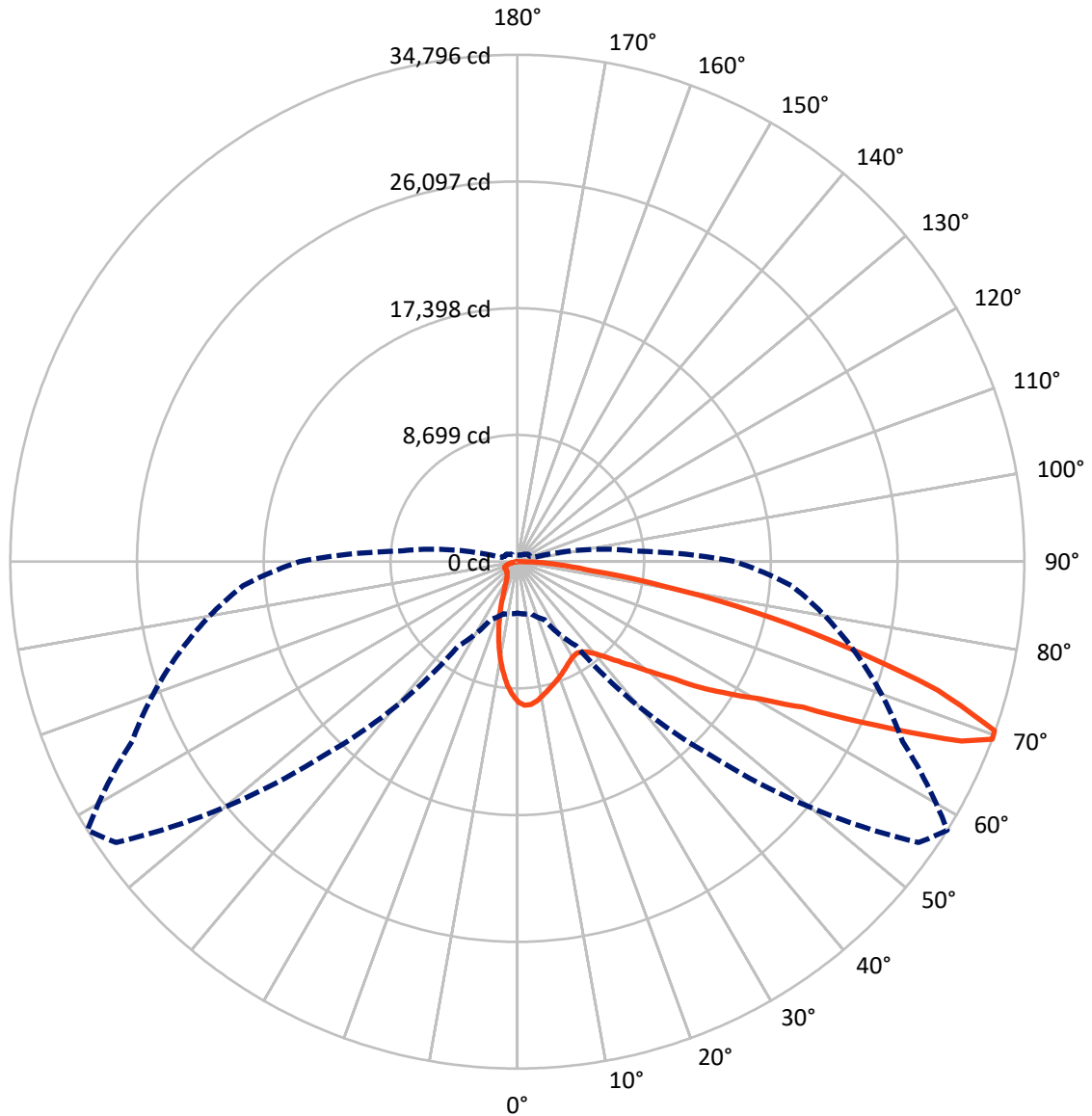
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Short - N/A

REPORT NUMBER: P454433
CATALOG NUMBER: GALN-SA5C-740-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5114.2	0.0	5114.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	29782.8	0.0	29782.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	34897.0	0.0	34897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.0	2.3
10°-20°	1798.3	5.2
20°-30°	2323.4	6.7
30°-40°	3017.7	8.6
40°-50°	4387.3	12.6
50°-60°	7000.7	20.1
60°-70°	9352.1	26.8
70°-80°	5391.1	15.4
80°-90°	807.5	2.3
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°	34897.0	100.0
0°-180°	34897.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454433

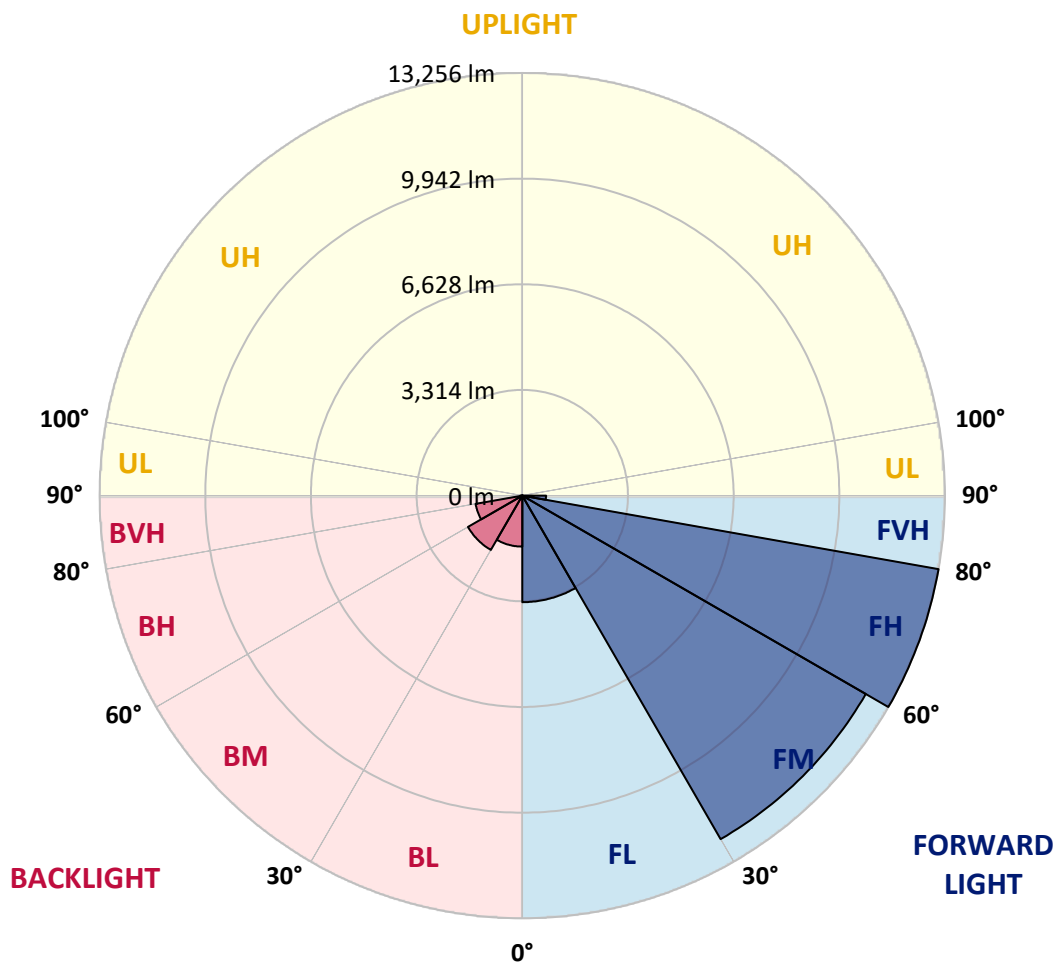
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3342.2	9.6			
FM	(30°-60°)	12439.0	35.6			
FH	(60°-80°)	13256.0	38.0			G5
FVH	(80°-90°)	745.6	2.1			G4/750
BL	(0°-30°)	1598.5	4.6	B3/2500		
BM	(30°-60°)	1966.7	5.6	B2/2500		
BH	(60°-80°)	1487.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	61.9	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-G5

Type III Short





REPORT NUMBER: P454433

CATALOG NUMBER: GALN-SA5C-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5
2.5°	10001.6	10028.8	10021.1	10011.3	9995.8	9952.9	9882.9	9871.2	9826.4	9731.1	9612.3
5°	9847.8	9871.2	9873.1	9886.8	9906.2	9898.4	9847.8	9842.0	9775.8	9647.4	9448.9
7.5°	9320.4	9351.6	9419.7	9495.6	9563.7	9627.9	9643.5	9653.2	9612.3	9464.4	9199.8
10°	8726.8	8758.0	8789.1	8902.0	9069.4	9228.9	9361.3	9378.8	9388.5	9252.3	8929.2
12.5°	8069.0	8133.2	8199.4	8366.8	8590.6	8841.6	9075.2	9112.2	9178.3	9075.2	8695.7
15°	7510.4	7576.6	7672.0	7821.8	8092.4	8454.4	8783.3	8843.6	8974.0	8921.4	8477.7
17.5°	7123.1	7146.5	7212.7	7383.9	7675.9	8057.3	8497.2	8617.8	8826.1	8812.5	8290.9
20°	6817.6	6846.8	6887.6	6992.7	7296.4	7699.2	8230.5	8386.2	8668.4	8715.1	8106.0
22.5°	6689.1	6710.5	6704.7	6761.1	6967.4	7372.3	7960.0	8144.9	8528.3	8649.0	7934.7
25°	6696.9	6716.4	6687.2	6673.6	6796.2	7084.2	7677.8	7913.3	8415.4	8604.2	7779.0
27.5°	6827.3	6840.9	6786.4	6732.0	6741.7	6905.2	7444.3	7705.1	8320.1	8623.7	7648.6
30°	7002.5	7027.8	6992.7	6926.6	6854.6	6862.3	7294.4	7551.3	8275.3	8691.8	7586.3
32.5°	7228.2	7251.6	7236.0	7183.5	7090.1	6986.9	7257.4	7494.9	8279.2	8830.0	7572.7
35°	7465.7	7512.4	7537.7	7533.8	7457.9	7278.8	7403.4	7600.0	8372.6	9061.6	7652.5
37.5°	7734.3	7773.2	7882.2	7952.2	7882.2	7673.9	7732.3	7868.5	8578.9	9396.3	7827.7
40°	7995.0	8053.4	8213.0	8431.0	8403.7	8220.8	8234.4	8324.0	8942.9	9894.5	8170.2
42.5°	8267.5	8337.6	8615.9	8939.0	9003.2	8861.1	8898.1	8977.9	9460.5	10585.5	8758.0
45°	8617.8	8701.5	9044.1	9446.9	9699.9	9612.3	9717.4	9756.4	10153.4	11484.6	9532.6
47.5°	9069.4	9166.7	9589.0	10091.1	10449.2	10529.0	10712.0	10688.6	11011.7	12549.2	10536.8
50°	9830.3	9884.8	10283.8	10795.6	11288.0	11648.1	11846.6	11883.6	12076.3	13584.6	11659.8
52.5°	10735.3	10784.0	11072.0	11519.6	12136.6	12899.5	13389.9	13269.3	13316.0	14845.7	12973.5
55°	11753.2	11834.9	12017.9	12315.6	13115.5	14238.5	15223.3	15252.5	14734.8	16052.4	14232.7
57.5°	12541.4	12679.6	12992.9	13417.2	14431.2	15727.4	17050.8	17070.2	16408.5	17340.8	15622.3
60°	12144.4	12307.9	13024.1	14057.5	16157.5	18325.5	19234.4	19123.5	18037.5	18808.2	17317.4
62.5°	10431.7	10460.9	11502.1	13117.5	16688.8	21801.5	22484.6	22015.6	20211.4	20668.8	19039.8
65°	6751.4	6942.1	7767.3	10030.8	14943.0	23730.2	28179.2	27095.2	23259.2	22780.4	20482.0
67.5°	4262.2	4213.6	4556.1	5727.7	10278.0	22031.1	33038.9	32867.7	27245.0	24113.6	20137.5
69°	3534.3	3588.8	3705.6	4390.7	7072.5	18810.2	33613.1	34796.4	29177.6	24008.5	18886.1
70°	3205.4	3230.7	3353.3	3892.4	5457.2	15754.6	32671.1	34743.8	29936.7	23568.6	17979.1
72.5°	2543.7	2541.8	2751.9	3238.5	4079.3	8993.5	26826.6	30164.4	29088.1	21521.2	14855.4
75°	1932.6	1963.7	2195.3	2740.3	3758.1	4914.2	18720.6	23230.0	23232.0	16998.2	9269.8
77.5°	1393.5	1413.0	1683.5	2300.4	3540.2	3983.9	12469.4	16661.5	15663.1	7788.7	2913.5
80°	912.8	924.5	1130.8	1821.7	3191.8	3758.1	7393.7	10198.2	7387.8	2066.9	963.4
82.5°	500.2	558.6	690.9	1179.4	2561.2	3472.0	4493.8	5161.4	2771.4	920.6	502.1
85°	251.1	266.6	389.2	689.0	1673.7	2872.6	3129.5	2960.2	1430.5	457.4	260.8
87.5°	74.0	93.4	161.5	266.6	679.2	1496.6	1741.9	1562.8	550.8	165.4	54.5
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°	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5	9643.5
2.5°	9563.7	9528.7	9373.0	9232.8	9104.4	8968.2	8853.3	8752.1	8761.9	8763.8	8660.6
5°	9345.7	9265.9	8970.1	8693.7	8460.2	8164.4	7911.4	7747.9	7666.1	7557.1	7596.1
7.5°	9049.9	8896.1	8485.5	8026.2	7596.1	7212.7	6796.2	6510.1	6327.1	6150.0	6173.4
10°	8744.3	8497.2	7899.7	7292.5	6735.8	6122.8	5591.5	5136.1	4797.4	4670.9	4587.2
12.5°	8431.0	8106.0	7347.0	6539.3	5770.5	5036.8	4283.6	3795.1	3421.4	3222.9	3248.2
15°	8144.9	7749.8	6770.9	5786.1	4787.7	3913.8	3162.6	2697.5	2436.7	2382.2	2413.3
17.5°	7880.2	7362.5	6231.8	5054.3	3888.5	2934.9	2376.3	2113.6	2008.5	1979.3	1977.4
20°	7607.7	7033.6	5626.5	4271.9	3030.3	2275.1	1950.1	1827.5	1808.0	1819.7	1821.7
22.5°	7331.4	6626.9	5003.7	3495.4	2413.3	1860.6	1704.9	1671.8	1687.4	1714.6	1718.5
25°	7076.4	6268.8	4404.3	2814.2	1926.8	1634.8	1558.9	1558.9	1593.9	1634.8	1636.8
27.5°	6866.2	5922.3	3806.8	2234.3	1613.4	1471.3	1446.0	1459.7	1508.3	1539.5	1541.4
30°	6693.0	5599.3	3242.4	1790.5	1418.8	1340.9	1335.1	1358.5	1393.5	1422.7	1424.6
32.5°	6562.6	5315.1	2715.0	1504.4	1284.5	1241.7	1239.7	1257.3	1276.7	1284.5	1292.3
35°	6512.0	5079.6	2232.3	1323.4	1195.0	1167.7	1167.7	1165.8	1173.6	1177.5	1181.4
37.5°	6552.9	4898.6	1858.6	1206.7	1128.8	1109.3	1097.7	1086.0	1082.1	1082.1	1084.0
40°	6726.1	4803.3	1580.3	1130.8	1082.1	1052.9	1031.5	1017.9	1004.2	1008.1	1012.0
42.5°	7093.9	4820.8	1391.5	1080.1	1041.2	1000.4	969.2	953.6	943.9	955.6	953.6
45°	7679.8	4995.9	1270.9	1045.1	1000.4	947.8	918.6	903.0	903.0	920.6	926.4
47.5°	8499.1	5330.7	1206.7	1017.9	969.2	906.9	877.7	866.1	870.0	899.2	901.1
50°	9499.5	5912.6	1195.0	1004.2	953.6	877.7	844.7	833.0	842.7	873.8	877.7
52.5°	10603.0	6661.9	1251.4	1006.2	940.0	860.2	817.4	799.9	809.6	834.9	842.7
55°	11910.8	7600.0	1397.4	1014.0	920.6	850.5	797.9	759.0	770.7	788.2	790.2
57.5°	13245.9	8783.3	1654.3	1015.9	905.0	833.0	764.9	714.3	714.3	725.9	731.8
60°	14876.9	10071.7	1992.9	1017.9	906.9	807.7	720.1	663.7	655.9	661.7	663.7
62.5°	16496.1	11149.9	2049.4	1012.0	926.4	782.4	671.4	613.1	599.4	597.5	593.6
65°	17210.4	10949.4	1679.6	984.8	947.8	766.8	632.5	564.4	541.0	533.3	533.3
67.5°	16046.5	9262.0	1263.1	947.8	934.2	751.2	595.5	523.5	496.3	480.7	480.7
69°	14952.8	8238.3	1134.6	922.5	899.2	725.9	572.2	502.1	469.0	451.5	445.7
70°	14108.1	7533.8	1080.1	901.1	866.1	696.7	554.7	486.6	449.6	430.1	426.2
72.5°	11258.8	5910.7	945.9	819.4	737.6	585.8	492.4	437.9	402.9	381.5	375.6
75°	6488.7	3203.5	784.3	712.3	593.6	455.4	416.5	381.5	354.2	334.7	328.9
77.5°	1996.8	1237.8	568.3	562.5	436.0	352.3	332.8	319.2	299.7	278.3	274.4
80°	840.8	630.6	385.4	379.5	290.0	245.2	239.4	237.4	229.7	212.1	206.3
82.5°	461.3	356.2	268.6	233.5	175.2	142.1	147.9	149.9	144.0	126.5	114.8
85°	225.8	194.6	130.4	105.1	79.8	50.6	48.7	58.4	54.5	38.9	42.8
87.5°	44.8	54.5	35.0	15.6	7.8	0.0	0.0	0.0	0.0	0.0	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)