

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: P457157

Luminaire Tested: **GALN-SA8C-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457157
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-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 47392 lumens
Efficiency: N/A
Efficacy: 110.5 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

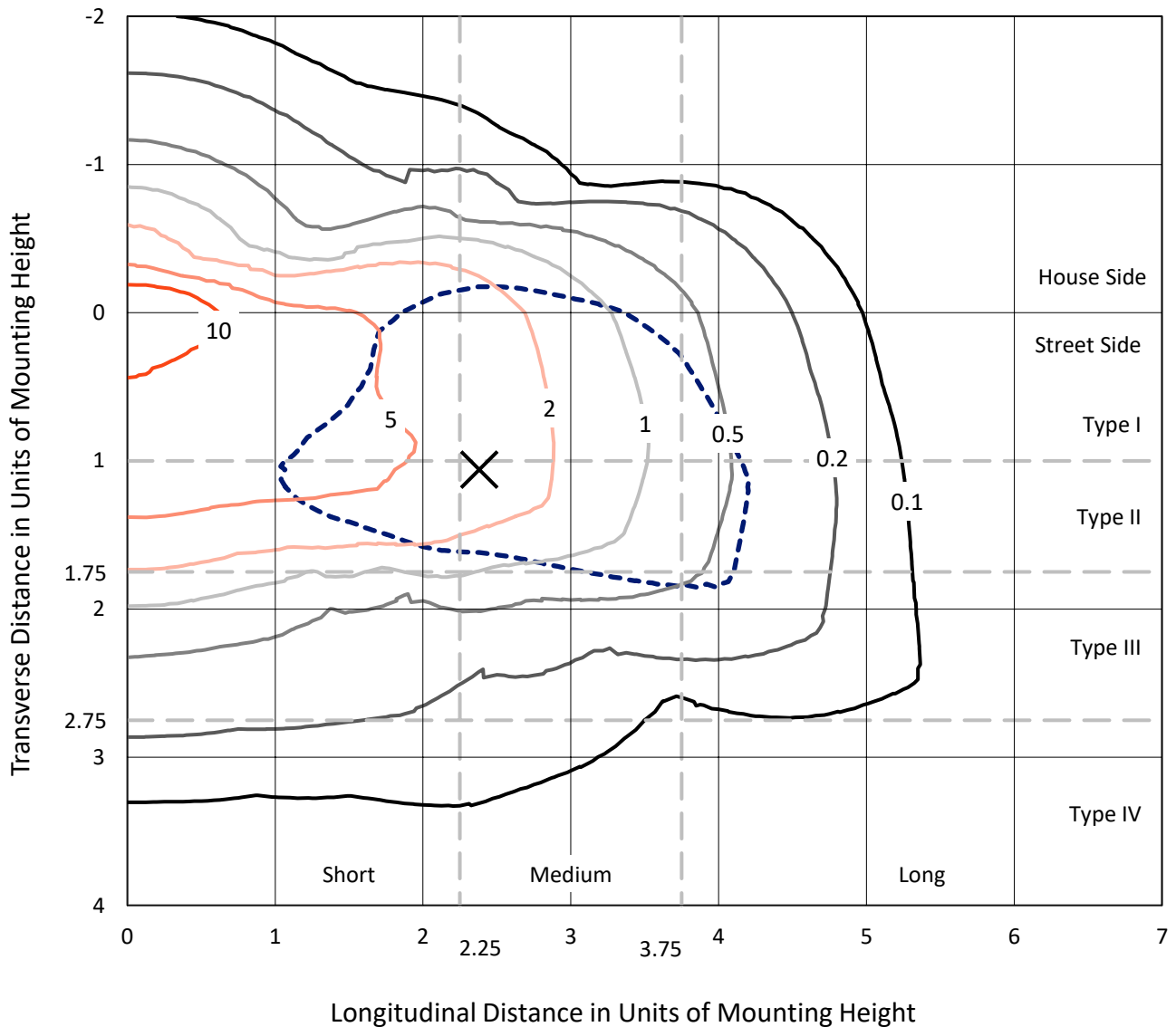
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

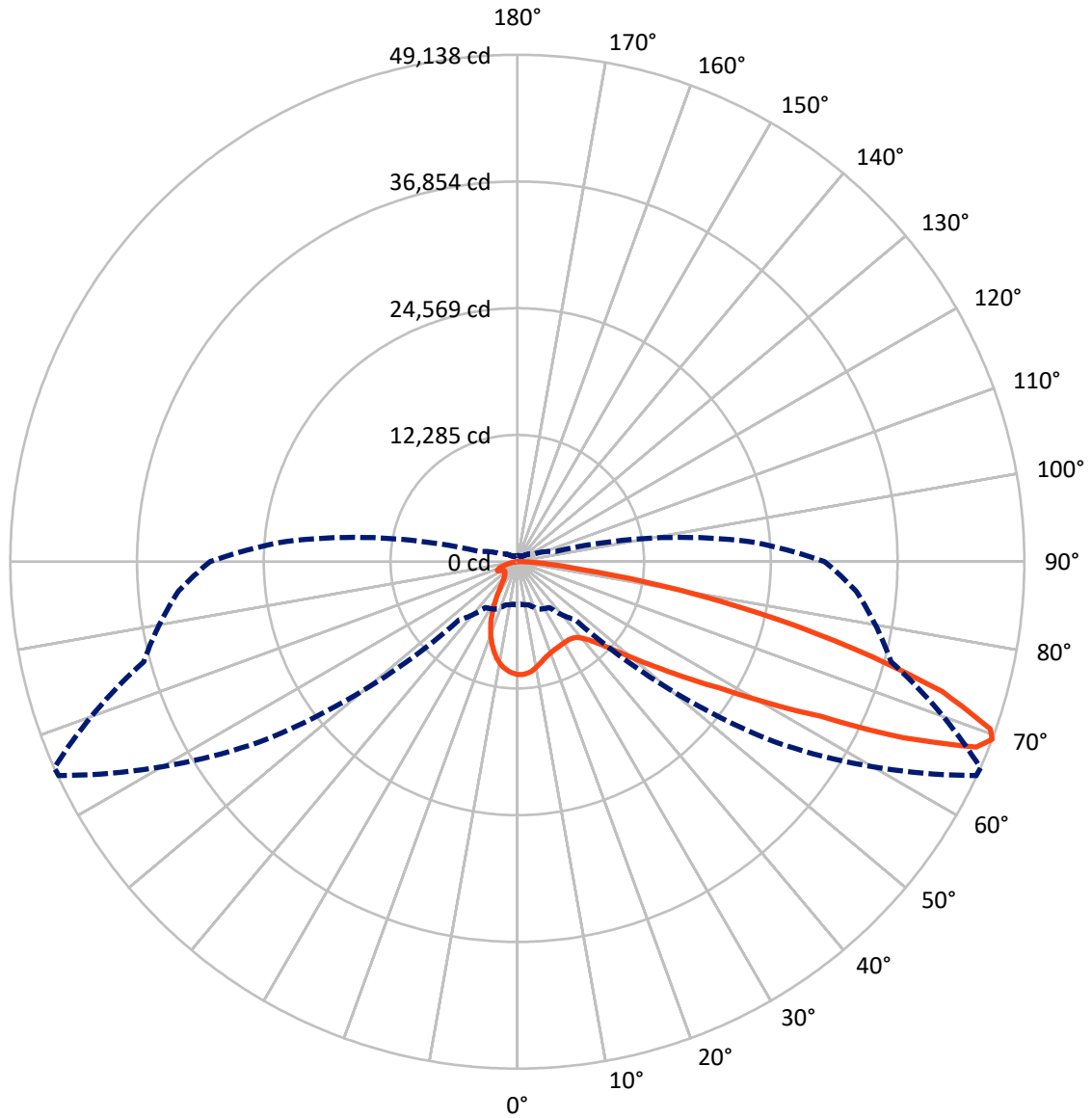
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8912.7	0.0	8912.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	38479.4	0.0	38479.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	47392.0	0.0	47392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	950.4	2.0
10°-20°	2254.2	4.8
20°-30°	3068.8	6.5
30°-40°	4123.8	8.7
40°-50°	6157.6	13.0
50°-60°	9794.6	20.7
60°-70°	12046.9	25.4
70°-80°	7838.2	16.5
80°-90°	1157.5	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°	47392.0	100.0
0°-180°	47392.0	100.0

Coefficient of Utilization



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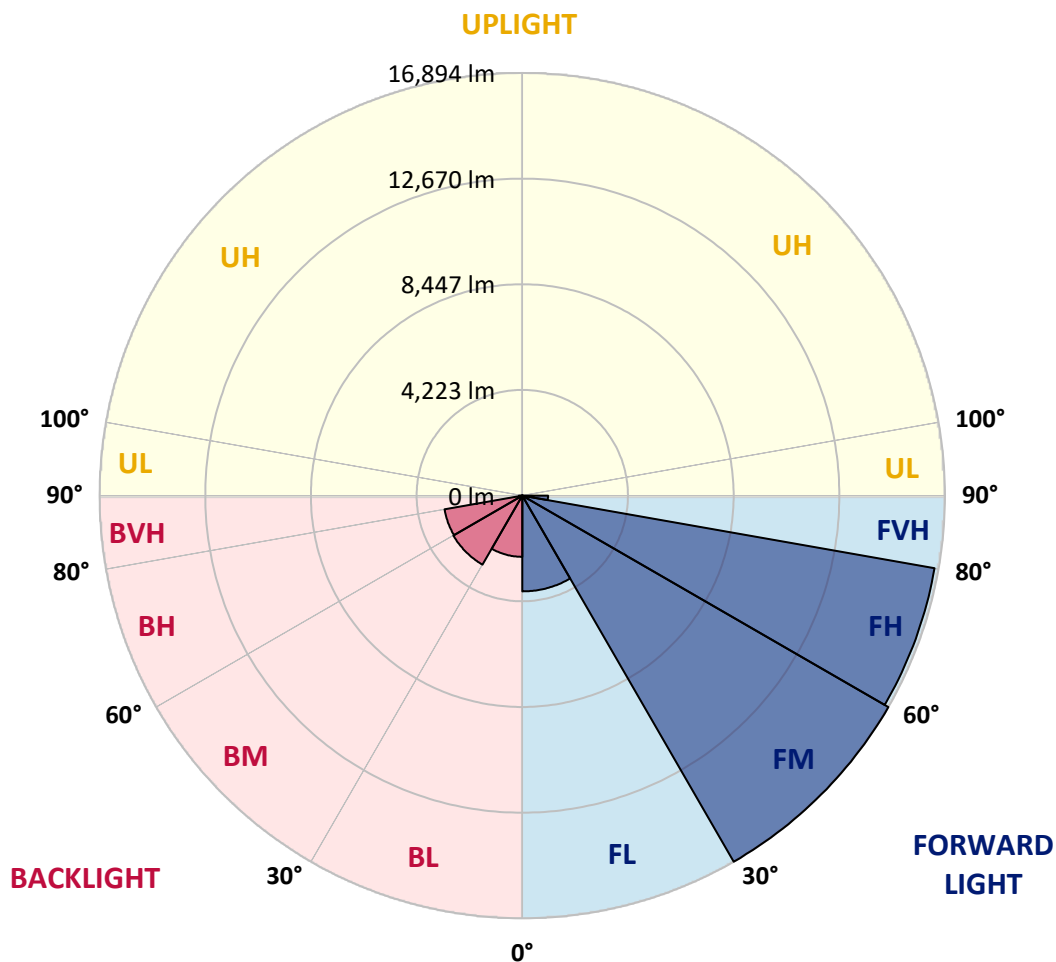
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3826.9	8.1			
FM	(30°-60°)	16893.8	35.6			
FH	(60°-80°)	16729.6	35.3			G5
FVH	(80°-90°)	1029.1	2.2			G5
BL	(0°-30°)	2446.6	5.2	B3/2500		
BM	(30°-60°)	3182.2	6.7	B3/5000		
BH	(60°-80°)	3155.5	6.7	B4/5000		G4/5000
BVH	(80°-90°)	128.4	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°	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1
2.5°	10561.0	10602.9	10650.2	10702.7	10802.4	10857.5	10896.9	10941.5	10946.8	10970.4	10952.0
5°	9781.5	9831.3	9902.2	10001.9	10151.5	10385.1	10626.6	10823.4	10847.0	10957.3	10988.7
7.5°	9130.6	9159.5	9217.2	9377.3	9589.9	9849.7	10201.4	10600.3	10658.1	10920.5	11012.4
10°	8600.5	8629.3	8697.6	8862.9	9072.9	9398.3	9784.1	10309.0	10356.2	10807.7	11017.6
12.5°	8204.2	8230.4	8303.9	8466.6	8708.1	9012.5	9437.7	9994.1	10062.3	10658.1	10967.8
15°	7902.3	7952.2	8012.6	8146.4	8401.0	8694.9	9107.0	9705.4	9760.5	10500.6	10933.6
17.5°	7773.7	7797.4	7839.4	7962.7	8149.0	8437.7	8852.4	9479.7	9545.3	10390.4	10925.8
20°	7779.0	7802.6	7810.5	7878.7	8012.6	8261.9	8671.3	9301.2	9379.9	10293.3	10938.9
22.5°	7957.5	7960.1	7931.2	7907.6	7960.1	8167.4	8542.7	9167.3	9259.2	10251.3	10949.4
25°	8233.0	8280.3	8238.3	8128.1	8030.9	8130.7	8492.9	9093.9	9180.5	10190.9	10936.3
27.5°	8679.2	8687.1	8652.9	8503.4	8251.4	8177.9	8471.9	9038.7	9112.2	10146.3	10870.6
30°	9277.6	9254.0	9222.5	9057.1	8660.8	8359.0	8516.5	8988.9	9065.0	10080.7	10791.9
32.5°	9883.8	9957.3	9928.5	9734.2	9219.8	8710.7	8660.8	8983.6	9046.6	10030.8	10705.3
35°	10526.8	10561.0	10697.4	10597.7	10070.2	9280.2	8931.1	9065.0	9114.9	10033.4	10644.9
37.5°	11030.7	11122.6	11442.8	11529.4	11033.4	10033.4	9369.4	9295.9	9316.9	10162.0	10668.6
40°	11639.6	11797.1	12209.1	12563.4	12238.0	11012.4	10114.8	9723.7	9750.0	10471.7	10823.4
42.5°	12411.2	12521.4	13075.2	13555.5	13503.0	12306.2	11017.6	10424.5	10437.6	11088.5	11256.4
45°	13314.0	13471.5	14093.5	14815.3	14938.6	13770.7	12322.0	11484.8	11476.9	12046.4	12064.8
47.5°	14468.8	14565.9	15182.7	15970.0	16468.7	15610.5	13904.6	13007.0	12923.0	13442.6	13293.0
50°	15531.7	15684.0	16151.1	17012.0	18253.3	17765.2	15985.8	14980.6	14783.8	15269.3	15017.3
52.5°	15977.9	16138.0	16531.7	17599.8	19783.4	20552.4	18628.6	17334.8	17006.7	17379.4	17287.5
55°	15203.7	15411.0	15778.4	17077.6	20455.3	23767.4	22192.7	20056.4	19817.5	19657.4	19683.7
57.5°	13122.5	13319.3	13815.3	15248.3	19652.2	26100.6	27281.6	23554.8	23043.0	22305.6	22431.5
60°	9988.8	10112.2	10369.4	11957.2	17271.8	26706.8	33060.7	27977.1	27651.6	24943.2	25032.4
62.5°	7094.0	7233.1	7411.6	8204.2	12644.8	24998.3	37585.3	34152.5	32989.9	27675.3	27588.7
65°	5760.8	5666.3	5881.5	6251.5	7419.4	19374.0	38603.6	42724.1	41123.2	31273.4	30071.4
67.5°	4737.2	4637.5	4850.1	5508.8	5642.7	11245.9	34934.6	48288.0	47967.8	35186.6	32593.6
69°	4193.9	4141.4	4327.8	5078.4	5417.0	7986.3	30433.6	49062.2	49138.4	37493.5	32982.0
70°	3779.3	3800.3	3981.4	4860.6	5314.6	6584.8	26011.3	47994.1	48639.7	38645.6	32562.1
72.5°	2782.0	2826.6	3078.5	4026.0	5217.5	5587.5	15479.3	41921.0	43062.7	38713.9	29788.0
75°	1944.7	1923.8	2146.8	3031.3	4928.8	5537.7	9091.2	32420.3	33714.2	33462.3	25029.8
77.5°	1272.9	1307.0	1485.5	2141.6	4146.7	5495.7	5926.1	23001.0	23840.9	22379.0	14804.8
80°	897.6	895.0	994.7	1461.8	3075.9	5280.5	4852.7	14497.7	14285.1	8794.7	4390.8
82.5°	514.4	551.1	666.6	1028.8	2057.6	4648.0	4464.3	6933.9	6330.3	2506.4	1482.8
85°	286.1	299.2	396.3	622.0	1202.0	3501.1	3897.4	3154.6	2976.2	1047.2	637.8
87.5°	91.9	99.7	165.3	314.9	545.9	1653.4	2207.2	1456.6	1343.7	377.9	257.2
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°	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1	10944.1
2.5°	10959.9	10991.4	10907.4	10826.0	10752.5	10650.2	10558.3	10482.2	10429.7	10421.9	10395.6
5°	10996.6	10999.2	10839.1	10623.9	10414.0	10183.0	9944.2	9773.6	9613.5	9524.3	9479.7
7.5°	11022.9	10999.2	10710.5	10361.5	9957.3	9537.4	9117.5	8781.5	8521.7	8419.4	8458.7
10°	11012.4	10938.9	10516.3	9957.3	9369.4	8742.2	8138.5	7666.1	7233.1	7010.0	7015.3
12.5°	10954.6	10833.9	10227.6	9503.3	8639.8	7800.0	6876.2	6238.4	5737.1	5440.6	5348.7
15°	10904.8	10694.8	9889.1	8886.5	7813.1	6613.7	5487.8	4700.5	4280.5	4047.0	4044.3
17.5°	10852.3	10561.0	9519.0	8233.0	6863.0	5319.8	4138.8	3537.8	3341.0	3364.6	3325.2
20°	10797.2	10403.5	9133.2	7506.0	5705.6	3968.2	3099.5	2855.4	2910.6	3018.2	3033.9
22.5°	10734.2	10235.5	8718.6	6705.6	4487.9	2986.7	2514.3	2477.5	2619.2	2787.2	2810.8
25°	10637.1	10025.6	8196.3	5868.4	3461.7	2406.7	2201.9	2228.2	2367.3	2509.0	2524.8
27.5°	10500.6	9765.7	7668.8	4823.8	2600.9	2065.5	2013.0	2047.1	2115.3	2201.9	2222.9
30°	10316.9	9471.8	7062.5	3921.0	2083.8	1894.9	1873.9	1892.3	1931.6	1968.4	1978.9
32.5°	10133.2	9188.3	6451.0	3002.4	1858.1	1782.0	1761.0	1761.0	1761.0	1766.3	1768.9
35°	9962.6	8920.6	5794.9	2338.4	1740.0	1692.8	1663.9	1632.4	1627.2	1608.8	1608.8
37.5°	9868.1	8676.6	5096.8	1957.9	1653.4	1619.3	1579.9	1527.5	1498.6	1501.2	1496.0
40°	9886.5	8516.5	4461.6	1742.7	1582.6	1545.8	1485.5	1425.1	1406.7	1406.7	1401.5
42.5°	10093.8	8464.0	3852.8	1629.8	1514.3	1472.3	1396.2	1341.1	1330.6	1328.0	1333.2
45°	10571.5	8592.6	3306.9	1556.3	1456.6	1393.6	1317.5	1267.6	1257.1	1257.1	1254.5
47.5°	11503.1	9009.9	2915.8	1509.1	1414.6	1333.2	1254.5	1204.6	1186.3	1181.0	1181.0
50°	12951.9	9915.3	2624.5	1467.1	1362.1	1278.1	1196.8	1139.0	1110.2	1107.5	1104.9
52.5°	14964.9	11327.3	2511.6	1435.6	1304.4	1220.4	1131.2	1076.0	1039.3	1031.4	1026.2
55°	17319.0	13298.3	2666.5	1412.0	1244.0	1154.8	1062.9	1005.2	971.1	955.3	952.7
57.5°	20045.9	15665.6	3254.4	1380.5	1188.9	1083.9	994.7	936.9	900.2	881.8	876.6
60°	22494.5	18098.5	4280.5	1362.1	1141.7	1007.8	915.9	863.5	829.3	811.0	808.3
62.5°	25184.6	20418.5	5506.2	1412.0	1120.7	934.3	842.5	795.2	766.4	748.0	748.0
65°	28058.4	22741.2	6317.2	1579.9	1152.2	876.6	763.7	724.4	698.1	685.0	682.4
67.5°	29995.3	23544.3	5204.4	1753.2	1230.9	813.6	687.6	656.1	640.4	627.3	627.3
69°	29785.4	22528.6	3839.6	1797.8	1254.5	782.1	645.6	622.0	601.0	595.8	590.5
70°	29121.4	21371.2	3217.6	1768.9	1236.1	753.2	619.4	590.5	572.1	566.9	564.3
72.5°	25937.8	18534.2	2396.2	1538.0	1052.4	653.5	548.5	522.3	506.5	498.7	498.7
75°	21549.7	15148.6	1871.3	1223.0	824.1	551.1	469.8	448.8	435.7	430.4	427.8
77.5°	12077.9	8458.7	1343.7	957.9	624.6	446.2	393.7	375.3	362.2	356.9	356.9
80°	3364.6	2417.2	790.0	632.5	425.2	338.6	312.3	299.2	280.8	267.7	275.6
82.5°	1267.6	1047.2	451.4	380.6	270.3	225.7	217.8	207.3	199.5	181.1	181.1
85°	616.8	509.2	288.7	202.1	149.6	118.1	112.9	107.6	102.4	89.2	91.9
87.5°	212.6	225.7	126.0	73.5	44.6	28.9	23.6	13.1	13.1	13.1	13.1
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)