

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: P456262

Luminaire Tested: **GALN-SA7C-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43652 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

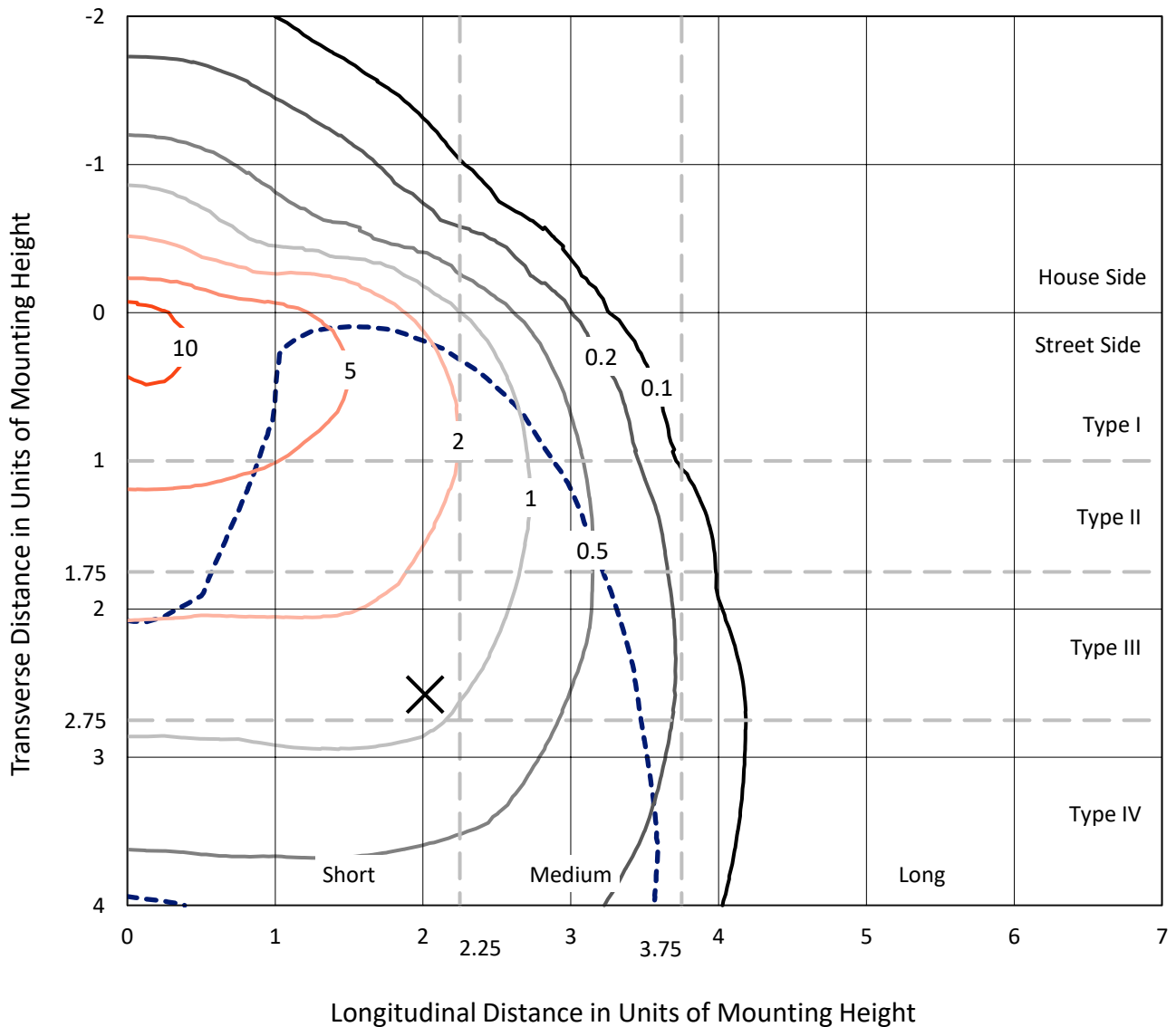
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

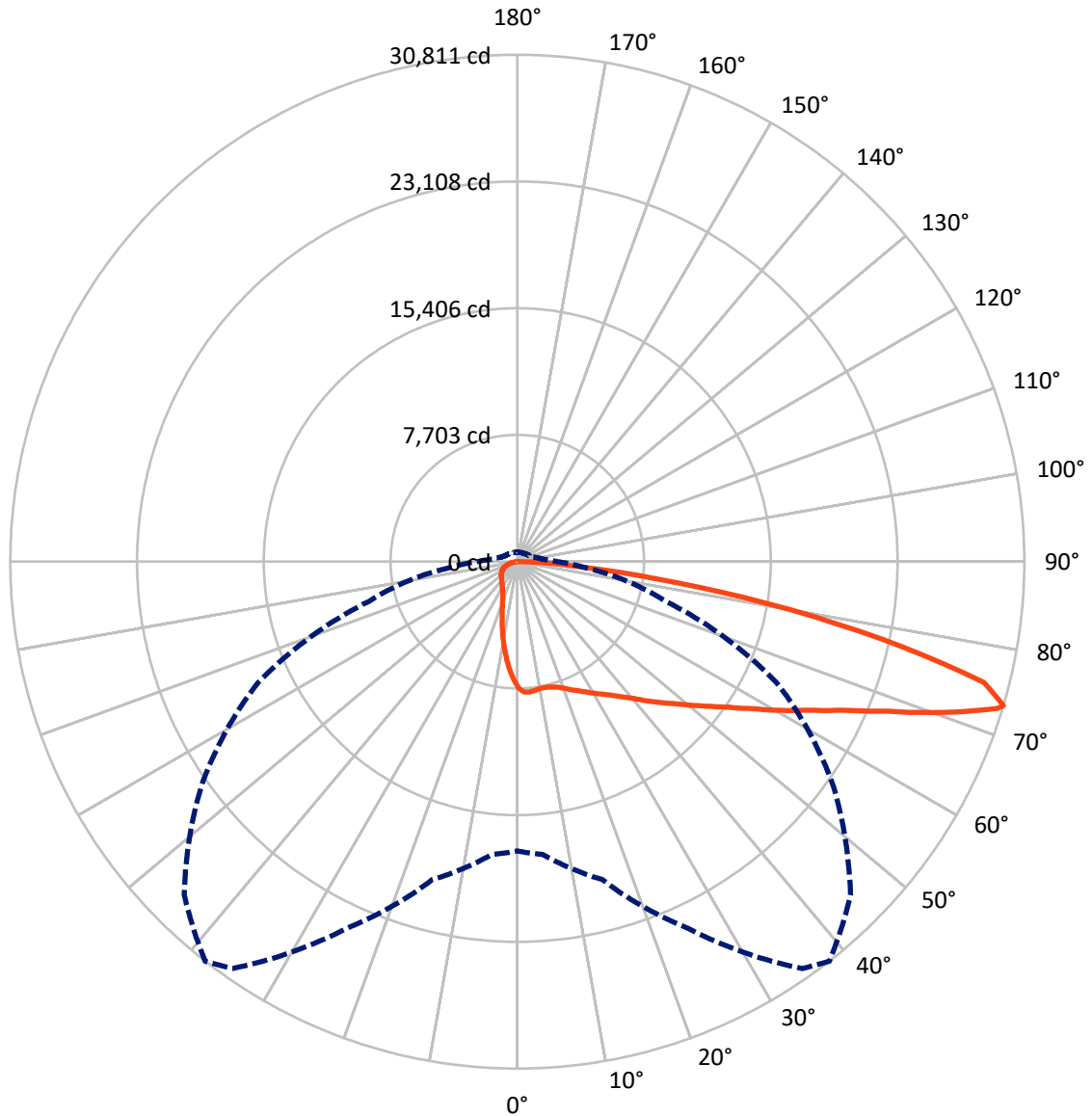
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5868.1	0.0	5868.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	37783.9	0.0	37783.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	43652.0	0.0	43652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.4	1.5
10°-20°	1716.6	3.9
20°-30°	2673.1	6.1
30°-40°	3920.8	9.0
40°-50°	5816.0	13.3
50°-60°	8240.1	18.9
60°-70°	10452.9	23.9
70°-80°	8701.2	19.9
80°-90°	1461.9	3.3
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°	43652.0	100.0
0°-180°	43652.0	100.0

Coefficient of Utilization



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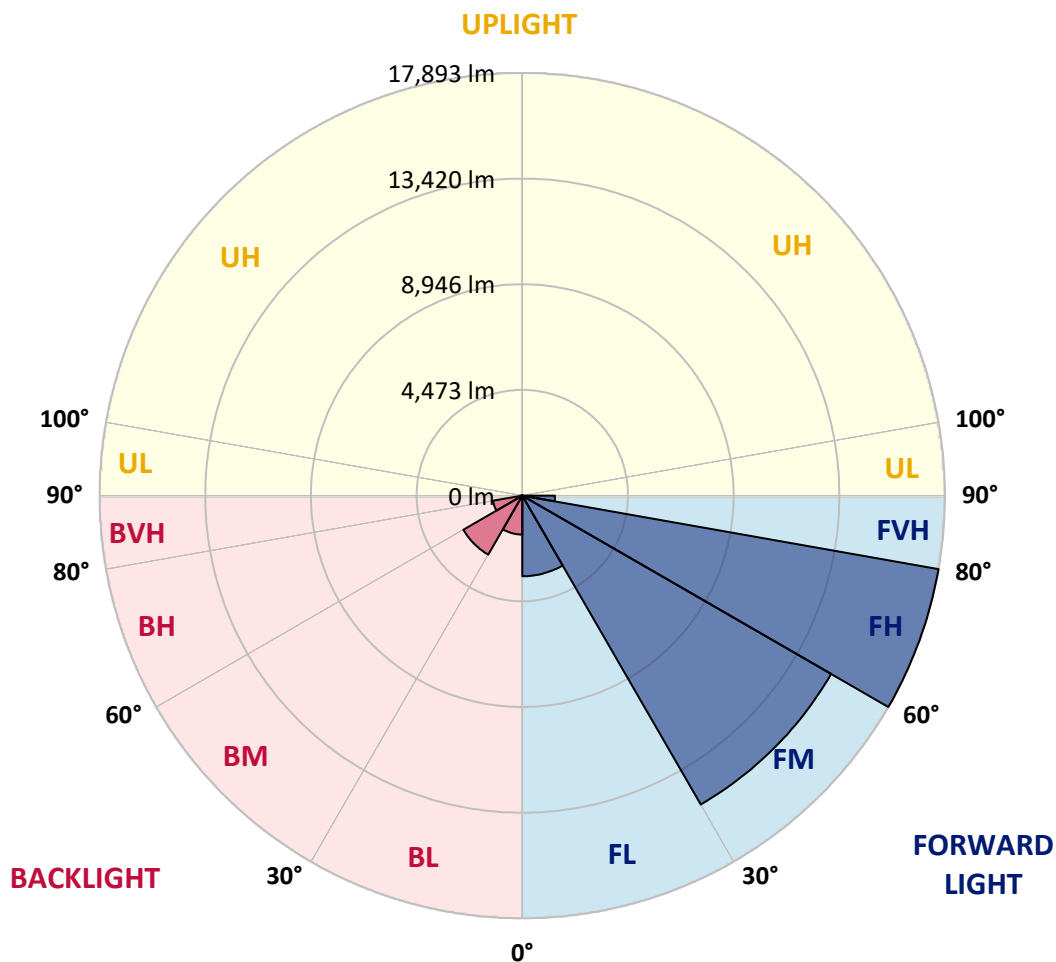
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3412.4	7.8			
FM	(30°-60°)	15096.0	34.6			
FH	(60°-80°)	17892.8	41.0			G5
FVH	(80°-90°)	1382.7	3.2			G5
BL	(0°-30°)	1646.7	3.8	B3/2500		
BM	(30°-60°)	2880.9	6.6	B3/5000		
BH	(60°-80°)	1261.3	2.9	B3/2500		G3/2500
BVH	(80°-90°)	79.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9
2.5°	7977.1	8016.5	7996.8	7969.7	7952.4	7935.1	7910.5	7839.0	7782.3	7720.7	7624.5
5°	8036.2	8060.9	8043.6	8009.1	7969.7	7952.4	7905.6	7811.9	7720.7	7617.1	7474.2
7.5°	8001.7	8011.6	7991.8	7949.9	7915.4	7883.4	7829.1	7725.6	7614.7	7489.0	7301.6
10°	7878.4	7915.4	7915.4	7880.9	7846.4	7829.1	7774.9	7676.3	7575.2	7432.3	7210.4
12.5°	7777.4	7816.8	7848.9	7839.0	7836.5	7836.5	7794.6	7720.7	7602.4	7466.8	7203.0
15°	7708.4	7755.2	7824.2	7863.7	7888.3	7895.7	7878.4	7814.4	7693.6	7535.8	7232.6
17.5°	7693.6	7750.3	7876.0	7962.3	8026.4	8023.9	8019.0	7930.2	7797.1	7634.4	7269.6
20°	7760.1	7834.1	8009.1	8144.7	8238.4	8221.1	8194.0	8078.1	7922.8	7740.4	7304.1
22.5°	7959.8	8036.2	8228.5	8376.4	8467.6	8467.6	8386.3	8233.4	8068.3	7863.7	7350.9
25°	8245.7	8329.6	8534.2	8684.5	8726.4	8694.4	8613.0	8428.2	8238.4	8041.1	7449.5
27.5°	8595.8	8696.9	8886.7	9012.4	9000.1	8975.4	8891.6	8655.0	8465.1	8285.2	7617.1
30°	9032.1	9106.1	9303.3	9332.9	9288.5	9283.6	9165.2	8928.6	8751.1	8613.0	7856.3
32.5°	9443.8	9510.3	9668.1	9680.4	9601.6	9611.4	9500.5	9283.6	9182.5	9133.2	8258.1
35°	9880.1	9914.6	10050.2	10035.4	9983.6	9976.2	9931.9	9724.8	9756.9	9845.6	8827.5
37.5°	10244.9	10314.0	10390.4	10402.7	10400.2	10424.9	10454.5	10355.9	10540.8	10819.3	9574.4
40°	10580.2	10639.4	10752.8	10792.2	10888.3	10937.6	11038.7	11041.2	11467.6	11926.1	10493.9
42.5°	10807.0	10908.1	11120.1	11191.5	11425.7	11573.6	11724.0	11884.2	12503.0	13092.1	11578.6
45°	11004.2	11137.3	11489.8	11711.7	12029.7	12209.6	12527.6	12862.9	13752.8	14524.4	12680.5
47.5°	11302.5	11420.8	11825.1	12217.0	12697.7	12904.8	13380.5	13881.0	15044.5	15890.0	13735.5
50°	11716.6	11788.1	12199.8	12838.2	13452.0	13718.3	14346.9	15069.1	16424.9	17238.4	14662.4
52.5°	12246.6	12276.2	12604.0	13454.5	14263.1	14593.4	15426.6	16269.6	17632.8	18409.3	15397.0
55°	12872.7	12823.4	13079.8	14107.7	15189.9	15621.3	16516.1	17484.9	18991.1	19355.9	15931.9
57.5°	13491.5	13415.1	13619.7	14901.5	16333.7	16853.9	17896.6	18737.2	20203.9	20240.9	16306.6
60°	14147.2	14090.5	14334.5	15833.3	17736.4	18352.6	19316.5	20036.3	21377.3	20857.2	16365.8
62.5°	14820.2	14729.0	15076.5	16881.0	19316.5	19876.1	20810.3	21416.8	22528.5	21086.4	15796.3
65°	15473.4	15431.5	15968.9	18125.9	21116.0	21752.0	22659.2	23070.8	23450.5	20741.3	14383.8
67.5°	16168.6	16252.4	17110.2	19787.3	23462.8	24261.5	25240.1	24853.1	23714.2	19107.0	12113.5
70°	17228.6	17282.8	18609.0	21964.0	26487.5	27451.3	27924.6	25486.6	22442.2	16003.4	9106.1
72.5°	17684.6	17923.7	19947.6	24249.2	29923.8	30513.0	28826.8	24074.1	18695.3	10871.1	4784.8
73°	17583.5	17869.5	20009.2	24596.7	30192.5	30811.2	28634.6	23346.9	17378.9	9362.4	4101.9
75°	16323.9	16676.4	19208.0	24305.9	29669.9	29300.1	25543.3	19898.3	11743.7	4257.2	1868.5
77.5°	12880.1	12981.2	15219.5	19627.1	23364.2	22678.9	19116.8	12436.4	4797.1	1582.6	1060.0
80°	6461.0	6833.2	8578.5	11243.3	15623.8	15399.5	12066.6	5881.7	1999.2	929.3	702.6
82.5°	3108.5	3372.3	4178.3	5482.4	8632.8	8428.2	5975.4	3214.5	1269.5	542.3	414.1
85°	2001.7	2198.9	2659.8	2615.5	3549.7	3389.5	2684.5	2433.1	751.9	283.5	288.4
87.5°	1321.3	1447.0	1735.4	1387.8	1291.7	1168.5	1185.7	1370.6	147.9	108.5	39.4
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°	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9
2.5°	7585.1	7553.1	7447.1	7343.5	7244.9	7151.2	7089.6	7008.3	6954.0	6968.8	6991.0
5°	7395.3	7323.8	7136.5	6954.0	6781.5	6576.9	6411.7	6278.6	6177.5	6140.6	6133.2
7.5°	7195.6	7074.8	6806.1	6493.1	6199.7	5945.8	5652.5	5507.0	5336.9	5277.8	5258.1
10°	7074.8	6912.1	6535.0	6098.6	5657.4	5235.9	4917.9	4659.0	4424.8	4380.5	4358.3
12.5°	7040.3	6825.9	6318.0	5756.0	5169.3	4651.6	4180.8	3840.6	3613.8	3562.1	3485.6
15°	7020.6	6754.4	6115.9	5410.9	4666.4	4035.4	3539.9	3143.0	2935.9	2797.9	2800.4
17.5°	7003.3	6673.0	5889.1	5033.7	4232.6	3505.4	2958.1	2600.7	2410.9	2336.9	2329.5
20°	6978.7	6576.9	5627.8	4636.8	3737.1	3022.2	2526.7	2260.5	2132.3	2070.7	2068.2
22.5°	6968.8	6483.2	5371.4	4232.6	3298.3	2650.0	2240.8	2053.4	1972.1	1930.2	1930.2
25°	6993.5	6416.6	5102.8	3848.0	2908.8	2332.0	2043.6	1915.4	1868.5	1846.4	1839.0
27.5°	7069.9	6387.1	4836.5	3463.5	2551.4	2115.1	1910.5	1821.7	1787.2	1769.9	1772.4
30°	7215.3	6384.6	4575.2	3083.8	2285.1	1949.9	1804.5	1742.8	1715.7	1705.8	1703.4
32.5°	7449.5	6438.8	4318.8	2770.8	2060.8	1811.8	1705.8	1661.5	1649.1	1641.8	1639.3
35°	7846.4	6591.7	4064.9	2484.8	1888.3	1688.6	1612.2	1590.0	1572.7	1580.1	1582.6
37.5°	8381.3	6855.4	3823.4	2260.5	1757.6	1597.4	1533.3	1513.6	1503.7	1511.1	1518.5
40°	9098.7	7235.1	3621.2	2080.5	1663.9	1521.0	1464.3	1447.0	1437.2	1449.5	1451.9
42.5°	9890.0	7673.8	3453.6	1940.0	1587.5	1456.9	1402.6	1382.9	1375.5	1382.9	1385.4
45°	10703.5	8184.1	3367.3	1839.0	1523.4	1410.0	1353.3	1331.2	1313.9	1309.0	1316.4
47.5°	11504.6	8627.8	3364.9	1777.3	1471.7	1368.1	1306.5	1281.9	1259.7	1247.3	1244.9
50°	12157.9	8980.3	3424.0	1750.2	1427.3	1321.3	1259.7	1235.0	1205.4	1180.8	1185.7
52.5°	12650.9	9209.6	3451.1	1737.9	1402.6	1272.0	1210.4	1188.2	1153.7	1121.6	1121.6
55°	12968.9	9263.8	3384.6	1725.6	1382.9	1220.2	1153.7	1133.9	1099.4	1067.4	1067.4
57.5°	13077.3	9096.2	3145.5	1696.0	1363.2	1175.9	1097.0	1079.7	1052.6	1020.6	1015.6
60°	12825.9	8529.2	2726.4	1607.2	1323.8	1129.0	1035.3	1027.9	1018.1	991.0	988.5
62.5°	11857.1	7326.3	2270.4	1491.4	1257.2	1079.7	978.6	991.0	998.4	983.6	981.1
65°	10244.9	5948.3	1940.0	1331.2	1168.5	1010.7	917.0	949.1	968.8	968.8	963.9
67.5°	8309.8	4567.8	1634.4	1193.1	1057.5	917.0	848.0	872.6	887.4	882.5	894.8
70°	5906.4	3093.7	1331.2	1035.3	917.0	811.0	759.2	759.2	749.4	744.5	744.5
72.5°	2864.4	1767.5	1079.7	865.2	781.4	692.7	650.8	633.5	613.8	611.3	599.0
73°	2393.6	1585.1	1030.4	833.2	749.4	675.4	628.6	601.5	589.2	579.3	576.8
75°	1456.9	1203.0	860.3	702.6	638.5	581.8	539.9	515.2	502.9	495.5	493.0
77.5°	958.9	897.3	668.0	537.4	488.1	453.6	436.3	411.7	404.3	394.4	394.4
80°	714.9	685.3	478.2	379.6	350.0	320.5	315.5	310.6	290.9	278.6	273.6
82.5°	461.0	488.1	325.4	253.9	221.9	197.2	199.7	207.1	187.3	170.1	165.2
85°	327.9	352.5	197.2	115.9	93.7	81.3	91.2	81.3	83.8	66.6	54.2
87.5°	54.2	93.7	34.5	14.8	7.4	4.9	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)