

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: P457654

Luminaire Tested: **GALN-SA9A-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457654
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-SA9A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 36957 lumens
Efficiency: N/A
Efficacy: 134.9 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

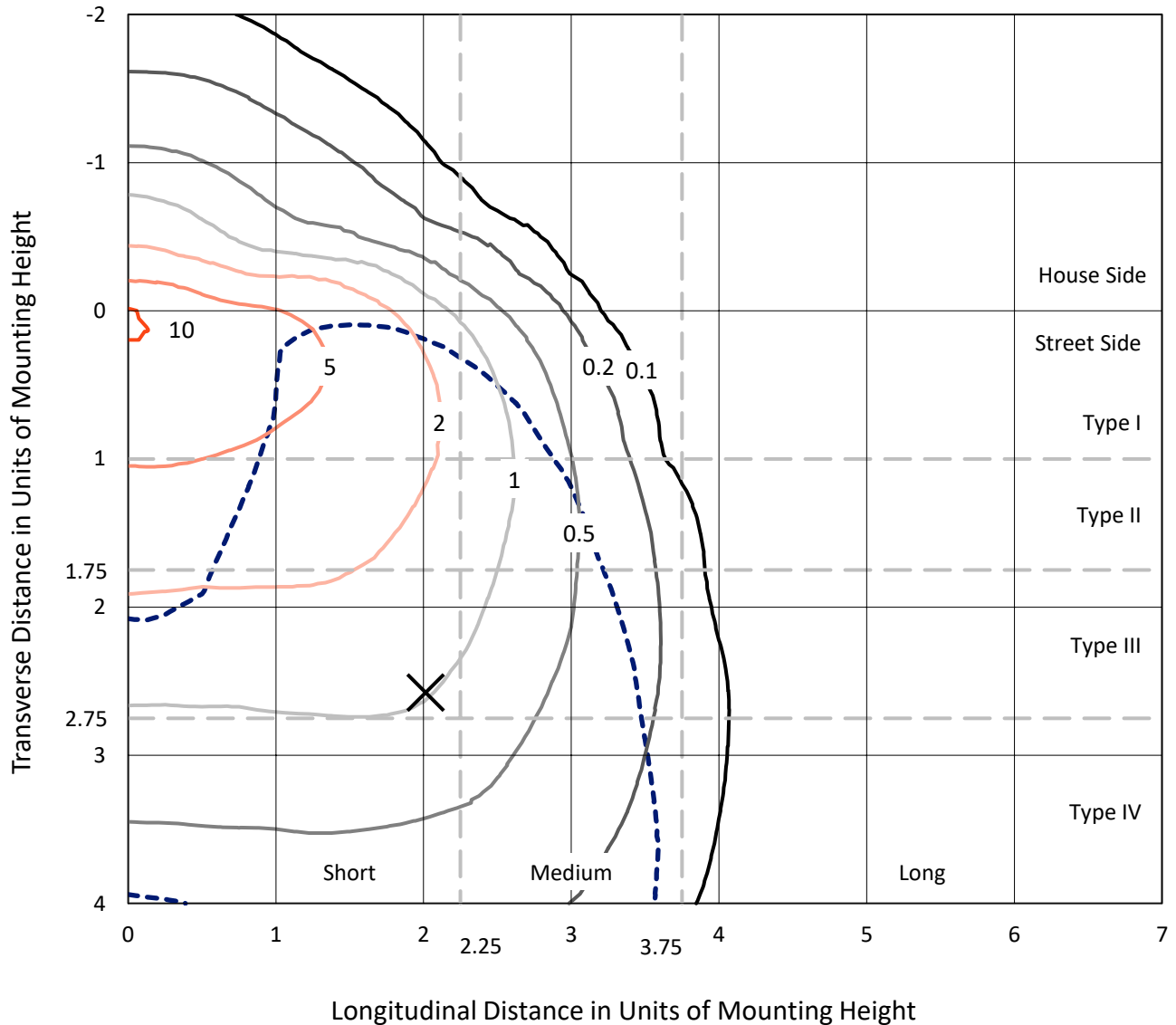
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

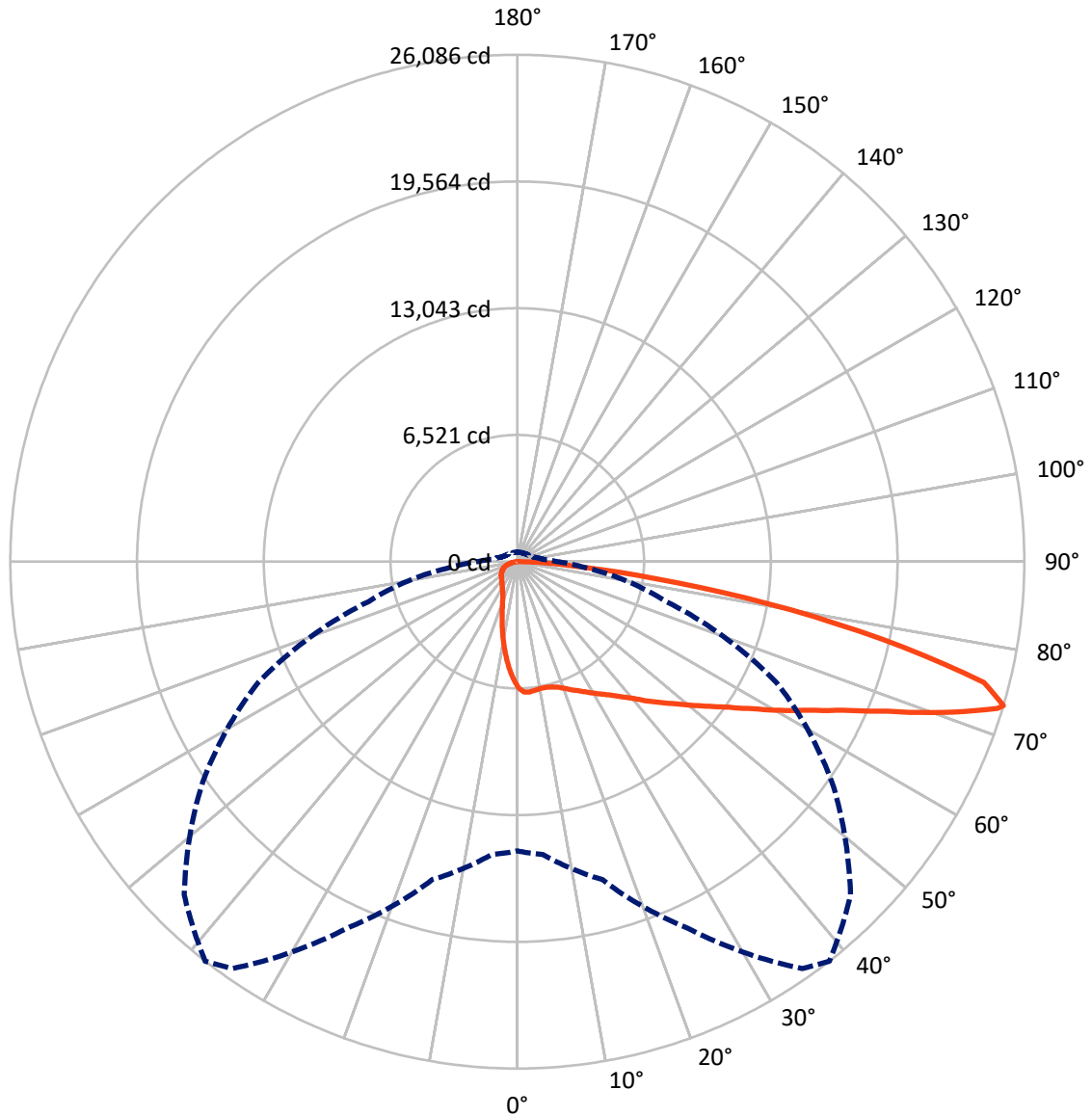
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	4968.1	0.0	4968.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	31988.9	0.0	31988.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	36957.0	0.0	36957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.7	1.5
10°-20°	1453.3	3.9
20°-30°	2263.1	6.1
30°-40°	3319.4	9.0
40°-50°	4924.0	13.3
50°-60°	6976.3	18.9
60°-70°	8849.7	23.9
70°-80°	7366.7	19.9
80°-90°	1237.7	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°	36957.0	100.0
0°-180°	36957.0	100.0

Coefficient of Utilization



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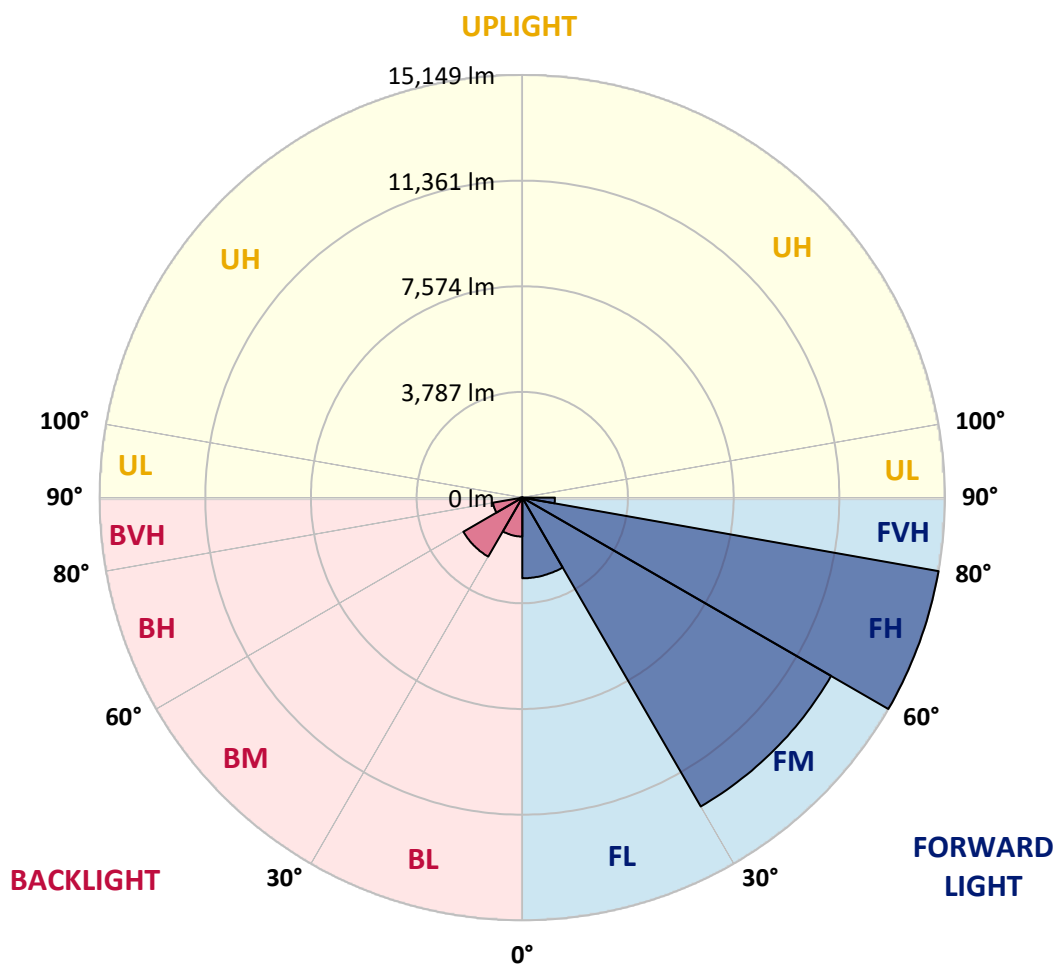
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2889.0	7.8			
FM	(30°-60°)	12780.7	34.6			
FH	(60°-80°)	15148.5	41.0			G5
FVH	(80°-90°)	1170.6	3.2			G5
BL	(0°-30°)	1394.1	3.8	B3/2500		
BM	(30°-60°)	2439.0	6.6	B2/2500		
BH	(60°-80°)	1067.9	2.9	B3/2500		G3/2500
BVH	(80°-90°)	67.1	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°	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7
2.5°	6753.6	6787.0	6770.3	6747.3	6732.7	6718.1	6697.2	6636.7	6588.7	6536.5	6455.2
5°	6803.7	6824.6	6809.9	6780.7	6747.3	6732.7	6693.1	6613.8	6536.5	6448.9	6327.8
7.5°	6774.5	6782.8	6766.1	6730.6	6701.4	6674.3	6628.4	6540.7	6446.8	6340.4	6181.8
10°	6670.1	6701.4	6701.4	6672.2	6643.0	6628.4	6582.5	6499.0	6413.4	6292.4	6104.5
12.5°	6584.5	6617.9	6645.1	6636.7	6634.6	6634.6	6599.2	6536.5	6436.4	6321.6	6098.3
15°	6526.1	6565.8	6624.2	6657.6	6678.5	6684.7	6670.1	6615.9	6513.6	6380.0	6123.3
17.5°	6513.6	6561.6	6668.0	6741.1	6795.3	6793.2	6789.1	6713.9	6601.2	6463.5	6154.6
20°	6569.9	6632.5	6780.7	6895.5	6974.8	6960.2	6937.3	6839.2	6707.7	6553.2	6183.8
22.5°	6739.0	6803.7	6966.5	7091.7	7168.9	7168.9	7100.0	6970.6	6830.8	6657.6	6223.5
25°	6981.1	7052.0	7225.3	7352.6	7388.1	7360.9	7292.0	7135.5	6974.8	6807.9	6307.0
27.5°	7277.4	7363.0	7523.7	7630.1	7619.7	7598.8	7527.9	7327.5	7166.8	7014.5	6448.9
30°	7646.8	7709.5	7876.4	7901.5	7863.9	7859.7	7759.5	7559.2	7408.9	7292.0	6651.3
32.5°	7995.4	8051.7	8185.3	8195.7	8128.9	8137.3	8043.4	7859.7	7774.1	7732.4	6991.5
35°	8364.8	8394.0	8508.8	8496.3	8452.4	8446.2	8408.6	8233.3	8260.4	8335.6	7473.6
37.5°	8673.7	8732.1	8796.8	8807.2	8805.1	8826.0	8851.1	8767.6	8924.1	9159.9	8106.0
40°	8957.5	9007.6	9103.6	9137.0	9218.4	9260.1	9345.7	9347.8	9708.8	10097.0	8884.4
42.5°	9149.5	9235.1	9414.5	9475.1	9673.3	9798.6	9925.9	10061.5	10585.4	11084.2	9802.7
45°	9316.5	9429.2	9727.6	9915.4	10184.7	10337.0	10606.2	10890.1	11643.5	12296.7	10735.6
47.5°	9569.0	9669.2	10011.4	10343.3	10750.2	10925.5	11328.3	11752.0	12737.1	13452.9	11628.9
50°	9919.6	9980.1	10328.7	10869.2	11388.9	11614.3	12146.5	12758.0	13905.8	14594.5	12413.6
52.5°	10368.3	10393.4	10670.9	11391.0	12075.5	12355.2	13060.6	13774.3	14928.5	15585.9	13035.5
55°	10898.4	10856.7	11073.7	11944.0	12860.2	13225.4	13983.0	14803.2	16078.4	16387.3	13488.4
57.5°	11422.3	11357.6	11530.8	12616.0	13828.6	14269.0	15151.8	15863.4	17105.2	17136.5	13805.6
60°	11977.4	11929.4	12136.0	13404.9	15016.1	15537.9	16353.9	16963.3	18098.6	17658.3	13855.7
62.5°	12547.2	12469.9	12764.2	14291.9	16353.9	16827.6	17618.6	18132.0	19073.3	17852.4	13373.6
65°	13100.2	13064.7	13519.7	15345.9	17877.4	18415.9	19183.9	19532.4	19853.8	17560.2	12177.8
67.5°	13688.8	13759.7	14486.0	16752.5	19864.3	20540.4	21369.0	21041.3	20077.1	16176.5	10255.6
70°	14586.2	14632.1	15754.9	18595.3	22425.0	23241.1	23641.8	21577.7	19000.2	13548.9	7709.5
72.5°	14972.3	15174.7	16888.2	20530.0	25334.3	25833.1	24405.6	20381.8	15828.0	9203.8	4050.9
73°	14886.7	15128.8	16940.3	20824.3	25561.8	26085.7	24242.8	19766.2	14713.5	7926.5	3472.8
75°	13820.2	14118.7	16262.1	20578.0	25119.4	24806.3	21625.7	16846.4	9942.6	3604.3	1582.0
77.5°	10904.7	10990.2	12885.3	16616.9	19780.8	19200.6	16184.8	10529.0	4061.3	1339.9	897.4
80°	5470.1	5785.2	7262.8	9518.9	13227.5	13037.6	10216.0	4979.6	1692.6	786.8	594.8
82.5°	2631.7	2855.0	3537.5	4641.5	7308.7	7135.5	5058.9	2721.5	1074.8	459.1	350.6
85°	1694.7	1861.6	2251.9	2214.3	3005.3	2869.7	2272.8	2059.9	636.5	240.0	244.2
87.5°	1118.6	1225.1	1469.3	1175.0	1093.6	989.2	1003.9	1160.4	125.2	91.8	33.4
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°	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7	6492.7
2.5°	6421.8	6394.6	6304.9	6217.2	6133.8	6054.4	6002.3	5933.4	5887.5	5900.0	5918.8
5°	6261.1	6200.5	6041.9	5887.5	5741.4	5568.2	5428.3	5315.6	5230.1	5198.8	5192.5
7.5°	6092.0	5989.7	5762.3	5497.2	5248.9	5033.9	4785.5	4662.4	4518.4	4468.3	4451.6
10°	5989.7	5852.0	5532.7	5163.3	4789.7	4432.8	4163.6	3944.5	3746.2	3708.6	3689.9
12.5°	5960.5	5779.0	5349.0	4873.2	4376.5	3938.2	3539.6	3251.6	3059.6	3015.7	2951.0
15°	5943.8	5718.4	5177.9	4581.0	3950.7	3416.5	2997.0	2661.0	2485.6	2368.8	2370.9
17.5°	5929.2	5649.6	4985.9	4261.7	3583.4	2967.7	2504.4	2201.8	2041.1	1978.5	1972.2
20°	5908.4	5568.2	4764.7	3925.7	3163.9	2558.7	2139.2	1913.8	1805.3	1753.1	1751.0
22.5°	5900.0	5488.9	4547.6	3583.4	2792.4	2243.5	1897.1	1738.5	1669.6	1634.1	1634.1
25°	5920.9	5432.5	4320.1	3257.8	2462.7	1974.3	1730.1	1621.6	1582.0	1563.2	1556.9
27.5°	5985.6	5407.5	4094.7	2932.3	2160.1	1790.7	1617.4	1542.3	1513.1	1498.5	1500.6
30°	6108.7	5405.4	3873.5	2610.9	1934.7	1650.8	1527.7	1475.5	1452.6	1444.2	1442.1
32.5°	6307.0	5451.3	3656.5	2345.8	1744.7	1534.0	1444.2	1406.7	1396.2	1390.0	1387.9
35°	6643.0	5580.7	3441.5	2103.7	1598.7	1429.6	1364.9	1346.1	1331.5	1337.8	1339.9
37.5°	7095.9	5804.0	3237.0	1913.8	1488.0	1352.4	1298.1	1281.4	1273.1	1279.3	1285.6
40°	7703.2	6125.4	3065.8	1761.4	1408.7	1287.7	1239.7	1225.1	1216.7	1227.2	1229.3
42.5°	8373.1	6496.9	2923.9	1642.5	1344.0	1233.4	1187.5	1170.8	1164.6	1170.8	1172.9
45°	9061.8	6928.9	2850.9	1556.9	1289.8	1193.8	1145.8	1127.0	1112.4	1108.2	1114.5
47.5°	9740.1	7304.6	2848.8	1504.7	1246.0	1158.3	1106.1	1085.3	1066.5	1056.0	1053.9
50°	10293.2	7603.0	2898.9	1481.8	1208.4	1118.6	1066.5	1045.6	1020.6	999.7	1003.9
52.5°	10710.6	7797.1	2921.8	1471.3	1187.5	1076.9	1024.7	1005.9	976.7	949.6	949.6
55°	10979.8	7843.0	2865.5	1460.9	1170.8	1033.1	976.7	960.0	930.8	903.7	903.7
57.5°	11071.6	7701.1	2663.0	1435.9	1154.1	995.5	928.7	914.1	891.2	864.0	859.9
60°	10858.8	7221.1	2308.2	1360.7	1120.7	955.9	876.5	870.3	861.9	839.0	836.9
62.5°	10038.6	6202.6	1922.1	1262.6	1064.4	914.1	828.5	839.0	845.2	832.7	830.6
65°	8673.7	5036.0	1642.5	1127.0	989.2	855.7	776.4	803.5	820.2	820.2	816.0
67.5°	7035.3	3867.2	1383.7	1010.1	895.3	776.4	717.9	738.8	751.3	747.2	757.6
70°	5000.5	2619.2	1127.0	876.5	776.4	686.6	642.8	642.8	634.5	630.3	630.3
72.5°	2425.1	1496.4	914.1	732.5	661.6	586.5	551.0	536.4	519.7	517.6	507.1
73°	2026.5	1342.0	872.4	705.4	634.5	571.8	532.2	509.2	498.8	490.4	488.4
75°	1233.4	1018.5	728.4	594.8	540.5	492.5	457.1	436.2	425.8	419.5	417.4
77.5°	811.9	759.7	565.6	455.0	413.2	384.0	369.4	348.5	342.3	333.9	333.9
80°	605.2	580.2	404.9	321.4	296.4	271.3	267.1	263.0	246.3	235.8	231.7
82.5°	390.3	413.2	275.5	215.0	187.8	167.0	169.0	175.3	158.6	144.0	139.8
85°	277.6	298.4	167.0	98.1	79.3	68.9	77.2	68.9	71.0	56.3	45.9
87.5°	45.9	79.3	29.2	12.5	6.3	4.2	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)