

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: P534181

Luminaire Tested: **GALN-SA9C-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37781 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 481
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



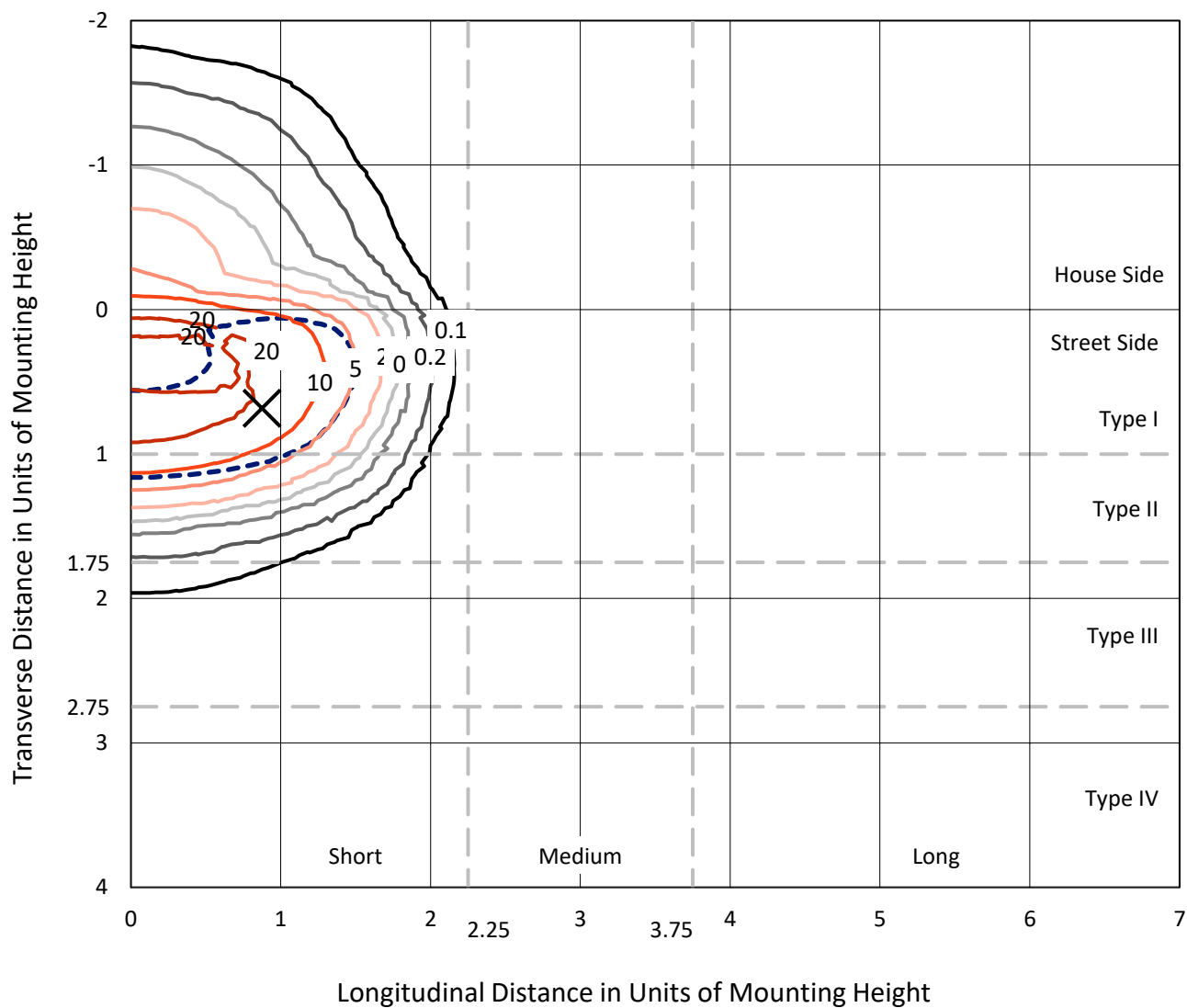
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

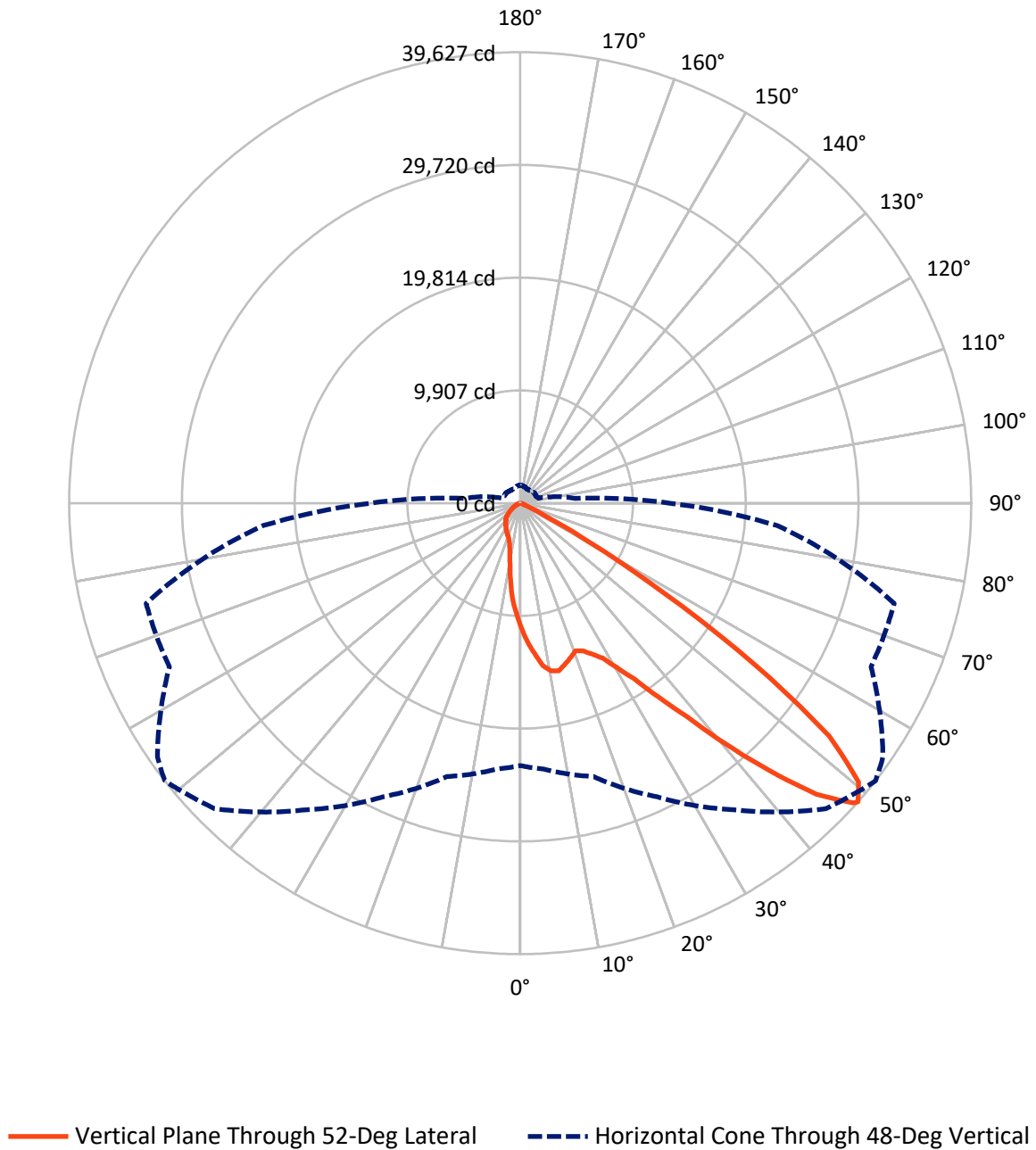


Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4600.1	0.0	4600.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	33180.9	0.0	33180.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	37781.0	0.0	37781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.6	2.6
10°-20°	2609.8	6.9
20°-30°	4455.9	11.8
30°-40°	8205.6	21.7
40°-50°	12743.3	33.7
50°-60°	7669.3	20.3
60°-70°	887.0	2.3
70°-80°	171.7	0.5
80°-90°	39.7	0.1
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°	37781.0	100.0
0°-180°	37781.0	100.0

Coefficient of Utilization



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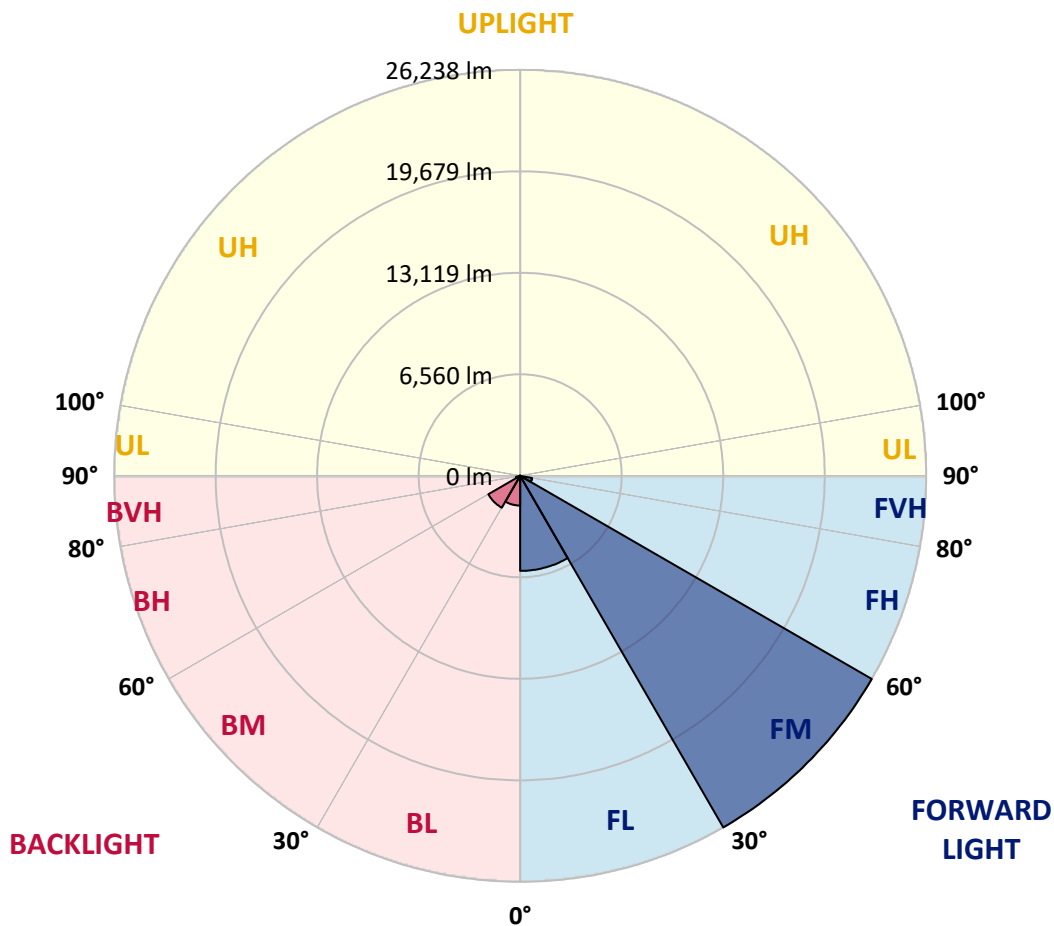
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6142.7	16.3			
FM	(30°-60°)	26238.2	69.4			
FH	(60°-80°)	781.1	2.1			G1/1800
FVH	(80°-90°)	18.9	0.1			G1/100
BL	(0°-30°)	1921.6	5.1	B3/2500		
BM	(30°-60°)	2380.1	6.3	B2/2500		
BH	(60°-80°)	277.6	0.7	B1/500		G1/500
BVH	(80°-90°)	20.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5
2.5°	13223.7	12920.8	12948.3	12750.1	12634.4	12447.1	12193.8	12144.2	11868.8	11494.3	11114.3
5°	14413.3	14341.8	14435.4	14149.0	14160.0	13851.6	13256.8	13267.8	12634.4	12023.1	11433.7
7.5°	14490.5	14325.2	14418.9	14672.2	14820.9	14765.8	14429.9	14138.0	13537.6	12639.9	11780.7
10°	12975.9	13289.8	13388.9	13807.5	14402.3	15030.2	14991.6	15008.2	14507.0	13333.9	12078.1
12.5°	12067.1	11857.8	12193.8	12447.1	13344.9	14562.1	15118.3	15239.5	15278.0	14005.8	12375.5
15°	11654.0	11654.0	11709.1	11780.7	12430.6	13554.2	14688.7	15041.2	15872.9	14887.0	12843.7
17.5°	11912.9	11901.9	11979.0	11830.3	12072.6	12937.3	14292.2	14694.2	16539.3	15751.7	13212.7
20°	12700.5	12739.0	12689.5	12259.9	12276.4	12926.3	13851.6	14484.9	16990.9	16500.7	13702.9
22.5°	13796.5	13818.5	13537.6	13069.5	12931.8	13251.2	14104.9	14589.6	17354.4	17398.5	13851.6
25°	15063.2	14975.1	14920.0	14259.1	13840.6	14115.9	14677.7	14958.6	17580.2	18169.5	14275.7
27.5°	16820.2	16643.9	16308.0	15718.6	15410.2	15019.2	15421.2	15883.9	18224.6	19249.0	14738.3
30°	19414.2	19260.0	18604.6	17844.6	17035.0	16649.4	16776.1	17029.5	19386.7	20499.2	15349.6
32.5°	23319.1	22994.2	22046.9	20598.4	19496.8	18433.9	18400.8	18670.7	20427.6	22228.6	16076.6
35°	27620.5	27521.4	26128.0	24635.4	22504.0	20862.7	20890.3	21033.5	22421.4	24497.7	17029.5
37.5°	30479.0	31024.2	30137.5	28534.8	26744.8	24398.6	23803.8	23853.3	25158.6	27185.4	18747.8
40°	32687.5	32224.9	32329.5	31955.0	30732.3	29135.1	27818.8	27560.0	28325.5	30159.5	20455.2
42.5°	31723.7	31745.7	32390.1	33276.8	33579.7	33464.1	32120.2	31630.1	31035.2	32593.9	22079.9
45°	29002.9	29570.2	30407.4	32753.6	34813.4	36746.6	36482.2	35667.1	32907.8	34521.5	23016.2
47.5°	24663.0	24640.9	26012.3	29063.5	33640.3	38167.6	39368.2	38795.4	34235.1	34306.7	22823.4
48°	23060.3	23456.8	24872.3	28463.2	32896.8	37958.3	39627.1	38905.6	34009.3	34020.4	22658.2
50°	17046.0	16974.4	18736.8	23142.9	29383.0	35667.1	38536.6	39098.3	34003.8	32571.9	21501.6
52.5°	9004.9	9313.3	10596.6	14551.0	20774.6	29190.2	33992.8	34868.5	32803.2	30203.6	19838.3
55°	3827.8	3458.8	4444.6	6570.5	11687.1	19502.4	24938.3	26888.0	27736.2	26728.3	17354.4
57.5°	1365.9	1492.6	1718.4	2472.9	4912.8	10673.7	14870.5	16385.1	19216.0	19612.5	11824.8
60°	875.7	892.2	963.8	1134.6	1845.0	4114.2	7055.2	8261.4	9544.6	9853.1	5518.6
62.5°	677.4	682.9	716.0	743.5	875.7	1597.2	2649.1	3139.3	3260.5	2803.4	1448.5
65°	567.3	572.8	583.8	583.8	622.4	749.0	925.3	1018.9	991.4	980.4	820.6
67.5°	435.1	446.1	468.1	468.1	490.2	457.1	512.2	545.3	616.8	749.0	699.5
70°	341.5	347.0	363.5	374.5	374.5	330.5	369.0	402.1	451.6	556.3	550.8
72.5°	264.4	275.4	286.4	286.4	269.9	225.8	264.4	291.9	324.9	385.5	374.5
75°	203.8	203.8	209.3	170.7	132.2	115.7	159.7	192.8	242.3	253.3	209.3
77.5°	55.1	60.6	55.1	49.6	55.1	82.6	104.6	121.2	154.2	154.2	137.7
80°	0.0	5.5	16.5	33.0	55.1	77.1	93.6	104.6	121.2	132.2	126.7
82.5°	0.0	5.5	16.5	33.0	49.6	60.6	82.6	88.1	99.1	115.7	115.7
85°	0.0	5.5	11.0	22.0	33.0	38.6	38.6	33.0	33.0	27.5	22.0
87.5°	0.0	0.0	5.5	11.0	11.0	16.5	16.5	16.5	16.5	16.5	16.5
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°	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5	10910.5
2.5°	10965.6	10794.9	10536.0	10128.4	9737.4	9484.1	9241.7	8971.9	8823.2	8812.1	8729.5
5°	11097.8	10712.3	10095.4	9395.9	8646.9	8002.5	7352.6	6928.5	6548.5	6339.2	6300.7
7.5°	11169.4	10668.2	9671.3	8498.2	7220.4	6168.5	5441.5	4907.3	4698.0	4543.8	4538.2
10°	11318.1	10591.1	9037.9	7308.6	5727.9	4664.9	4163.7	3921.4	3805.7	3761.7	3695.6
12.5°	11428.2	10447.9	8388.1	6085.9	4527.2	3866.3	3646.0	3590.9	3596.5	3618.5	3590.9
15°	11582.5	10321.2	7512.3	4995.4	3800.2	3480.8	3480.8	3491.8	3568.9	3579.9	3574.4
17.5°	11571.4	10073.4	6609.1	4114.2	3359.6	3315.6	3332.1	3436.7	3486.3	3502.8	3464.3
20°	11703.6	9842.1	5678.3	3513.8	3111.8	3177.9	3288.0	3315.6	3376.1	3387.2	3343.1
22.5°	11665.1	9263.8	4813.6	3040.2	2924.5	3051.2	3161.4	3194.4	3177.9	3144.8	3139.3
25°	11593.5	8768.1	4020.5	2726.3	2786.8	2924.5	3029.2	2968.6	2935.5	2941.1	2946.6
27.5°	11466.8	8140.2	3365.1	2506.0	2599.6	2803.4	2797.9	2775.8	2808.9	2781.3	2808.9
30°	11444.8	7512.3	2825.4	2307.7	2461.9	2610.6	2621.6	2660.2	2698.7	2649.1	2698.7
32.5°	11477.8	6823.9	2439.9	2186.5	2379.3	2384.8	2506.0	2544.5	2517.0	2406.8	2417.8
35°	11731.2	6295.2	2159.0	2120.4	2247.1	2252.6	2368.3	2318.7	2197.5	2131.4	2170.0
37.5°	12265.4	5854.6	2026.8	2059.8	2070.9	2142.5	2148.0	2048.8	2059.8	2054.3	2076.4
40°	12948.3	5518.6	1933.2	2004.8	1993.7	2043.3	1845.0	1900.1	1949.7	1966.2	1977.2
42.5°	13416.5	5276.3	1872.6	1916.6	1894.6	1806.5	1696.3	1751.4	1790.0	1850.5	1861.6
45°	13625.8	5083.5	1801.0	1762.4	1762.4	1602.7	1558.6	1569.7	1657.8	1723.9	1712.9
47.5°	13284.3	4896.2	1674.3	1558.6	1597.2	1465.0	1415.4	1415.4	1509.1	1591.7	1575.2
48°	13152.1	4819.1	1679.8	1514.6	1542.1	1443.0	1393.4	1382.4	1487.0	1564.2	1564.2
50°	12496.7	4532.7	1536.6	1393.4	1338.3	1327.3	1294.3	1305.3	1371.4	1443.0	1443.0
52.5°	11219.0	3915.9	1299.8	1195.1	1096.0	1162.1	1178.6	1156.6	1189.6	1255.7	1250.2
55°	9362.9	3007.1	1040.9	991.4	914.3	985.9	1018.9	991.4	958.3	1007.9	1007.9
57.5°	5997.8	1619.2	831.6	842.7	765.6	837.2	864.7	798.6	738.0	776.6	771.1
60°	2704.2	969.3	682.9	666.4	616.8	699.5	743.5	666.4	583.8	611.3	638.9
62.5°	1013.4	688.4	517.7	506.7	495.7	572.8	594.8	534.2	451.6	468.1	473.7
65°	743.5	605.8	413.1	374.5	396.5	451.6	440.6	380.0	324.9	324.9	336.0
67.5°	633.4	528.7	336.0	291.9	291.9	297.4	275.4	242.3	225.8	236.8	247.8
70°	495.7	418.6	264.4	225.8	203.8	181.8	159.7	154.2	137.7	154.2	148.7
72.5°	319.4	280.9	203.8	170.7	154.2	126.7	104.6	99.1	82.6	77.1	77.1
75°	170.7	170.7	159.7	137.7	121.2	99.1	82.6	66.1	44.1	33.0	33.0
77.5°	121.2	132.2	143.2	132.2	110.2	82.6	66.1	44.1	22.0	11.0	11.0
80°	115.7	132.2	143.2	126.7	110.2	82.6	60.6	33.0	16.5	5.5	5.5
82.5°	104.6	121.2	132.2	115.7	99.1	71.6	55.1	33.0	16.5	5.5	5.5
85°	22.0	27.5	33.0	33.0	38.6	49.6	38.6	27.5	11.0	5.5	5.5
87.5°	16.5	16.5	16.5	16.5	16.5	16.5	11.0	11.0	5.5	5.5	5.5
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)