

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: P458009

Luminaire Tested: **GALN-SA9B-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38137 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

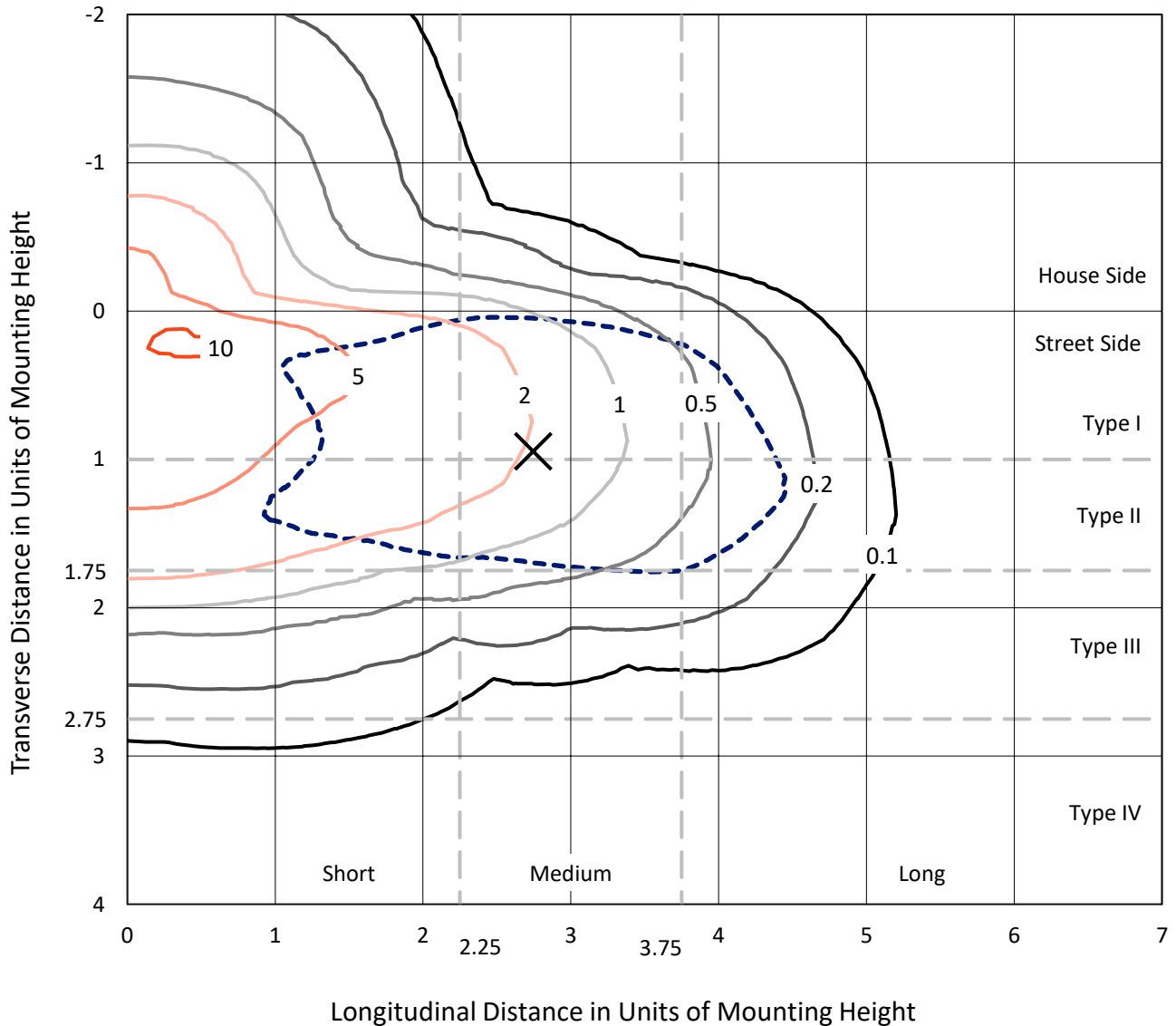
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

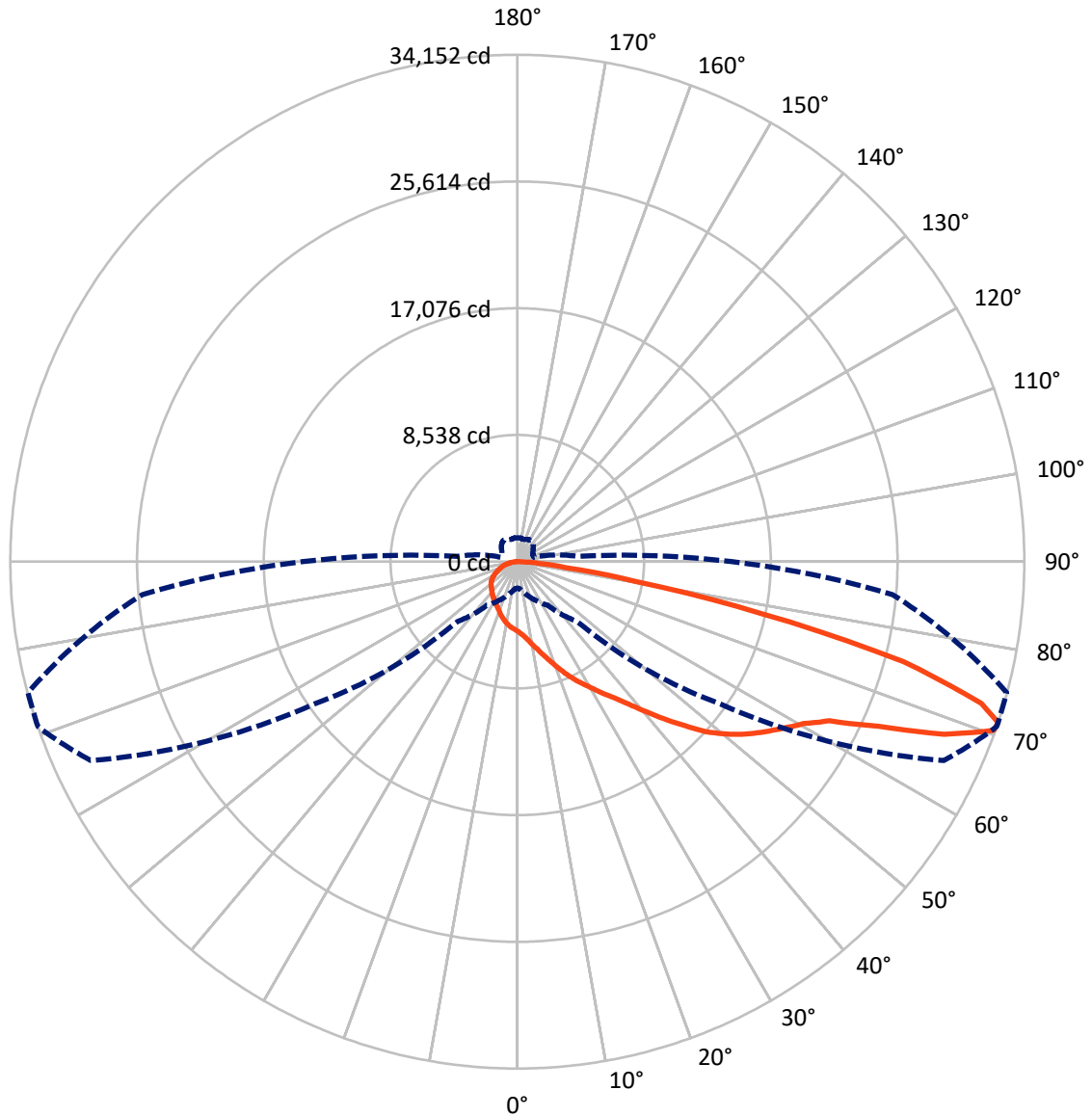
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6858.9	0.0	6858.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	31278.2	0.0	31278.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	38137.0	0.0	38137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.0	1.2
10°-20°	1526.9	4.0
20°-30°	2668.3	7.0
30°-40°	3968.8	10.4
40°-50°	5847.5	15.3
50°-60°	8186.6	21.5
60°-70°	9156.4	24.0
70°-80°	5593.1	14.7
80°-90°	719.5	1.9
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°	38137.0	100.0
0°-180°	38137.0	100.0

Coefficient of Utilization



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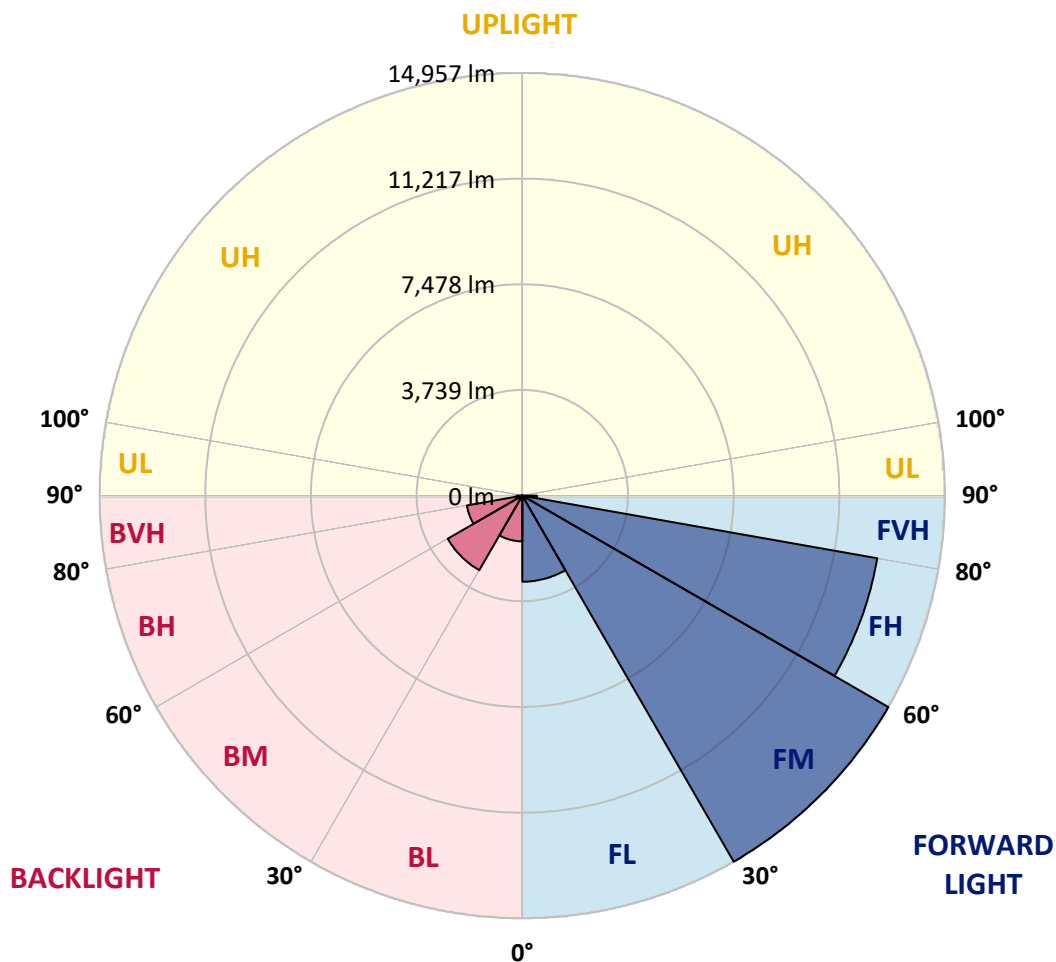
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3047.2	8.0			
FM	(30°-60°)	14956.6	39.2			
FH	(60°-80°)	12756.7	33.4			G5
FVH	(80°-90°)	517.7	1.4			G4/750
BL	(0°-30°)	1618.0	4.2	B3/2500		
BM	(30°-60°)	3046.3	8.0	B3/5000		
BH	(60°-80°)	1992.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	201.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6
2.5°	5196.2	5171.0	5173.1	5137.5	5091.4	5041.1	4969.8	4906.9	4856.6	4827.3	4741.4
5°	5758.0	5732.8	5701.4	5623.8	5590.3	5466.6	5309.4	5166.9	5057.9	4997.1	4825.2
7.5°	6212.8	6206.5	6198.1	6154.1	6068.2	5896.3	5762.1	5514.8	5353.4	5238.1	4944.7
10°	6493.7	6504.2	6510.4	6518.8	6483.2	6393.1	6208.6	5896.3	5690.9	5544.2	5099.8
12.5°	6636.2	6646.7	6682.3	6759.9	6808.1	6797.6	6646.7	6340.7	6057.7	5864.9	5265.4
15°	6724.3	6741.0	6803.9	6906.6	7068.0	7170.7	7097.4	6814.4	6504.2	6275.7	5462.4
17.5°	6820.7	6839.5	6908.7	7055.4	7267.1	7489.3	7569.0	7325.8	6988.4	6715.9	5682.5
20°	6875.2	6900.3	6998.8	7191.7	7439.0	7761.8	8025.9	7898.1	7529.1	7227.3	5936.1
22.5°	6963.2	6984.2	7068.0	7273.4	7569.0	7973.5	8482.9	8455.6	8130.7	7740.9	6214.9
25°	7202.2	7235.7	7277.6	7401.3	7686.4	8189.4	8862.3	9050.9	8713.4	8277.5	6470.6
27.5°	7652.8	7680.1	7678.0	7694.7	7856.1	8376.0	9191.3	9639.9	9292.0	8820.3	6718.0
30°	8166.4	8176.8	8185.2	8147.5	8183.1	8566.7	9493.2	10222.6	9874.7	9377.9	6933.9
32.5°	8791.0	8812.0	8740.7	8644.3	8614.9	8849.7	9742.6	10805.3	10564.3	9943.8	7147.7
35°	9528.8	9583.3	9438.7	9268.9	9149.4	9256.3	10078.0	11400.6	11270.7	10667.0	7430.6
37.5°	10371.4	10438.5	10304.4	9971.1	9801.3	9830.7	10516.1	12136.3	12163.6	11490.8	7851.9
40°	11061.1	11149.1	11153.3	10681.7	10423.8	10457.4	11071.5	12928.7	13241.0	12509.5	8348.7
42.5°	11515.9	11601.8	11692.0	11415.3	11144.9	11335.6	11719.2	13788.1	14452.5	13746.1	9042.5
45°	12014.8	12092.3	12142.6	12016.9	11866.0	12360.6	12501.1	14702.0	15743.7	15127.5	9801.3
47.5°	12593.3	12679.2	12727.4	12608.0	12551.4	13259.9	13343.7	15555.1	17122.9	16469.0	10639.7
50°	13364.7	13429.6	13404.5	13329.0	13316.4	13949.5	14152.8	16353.7	18261.1	17913.2	11509.6
52.5°	14324.7	14402.2	14429.5	14322.6	14274.4	14442.0	14804.7	17081.0	19296.6	19154.1	12438.2
55°	14905.3	15029.0	15444.0	15611.7	15726.9	15079.3	15506.9	17883.8	20225.2	20462.0	13435.9
57.5°	14161.2	14320.5	15249.0	16087.5	17171.2	16672.3	16502.5	18722.3	21153.7	21730.1	14630.7
60°	12346.0	12381.6	13578.5	15123.3	17303.2	18720.2	18579.7	20055.4	22159.8	23008.8	16204.9
62.5°	8564.6	8640.1	10054.9	12519.9	15672.4	19458.0	22113.7	22356.9	23602.0	24922.5	18512.6
65°	4416.5	4317.9	5607.0	7868.7	11815.6	17705.7	24977.0	26588.9	26729.3	27915.7	21761.6
67.5°	2718.6	2762.6	3366.3	4594.6	6986.3	12867.9	24677.2	31759.9	31020.0	31590.1	24777.9
70°	2041.6	2096.1	2511.1	3144.1	4259.3	7357.3	19845.8	33013.4	34046.8	33900.0	25695.9
71°	1775.4	1832.0	2263.8	2861.2	3578.0	5678.3	16720.5	31701.2	34151.6	34126.4	25350.1
72.5°	1513.4	1549.0	1886.5	2423.1	3016.3	3980.5	12561.9	28431.3	32694.8	33531.1	24115.5
75°	1188.5	1215.7	1366.6	1848.7	2374.9	2444.0	6741.0	21315.1	26853.0	28446.0	20076.3
77.5°	968.4	987.3	1064.8	1372.9	1832.0	1731.4	3536.1	13874.0	16823.2	18426.7	11826.1
80°	769.3	790.2	836.3	930.7	1372.9	1234.6	1687.4	7030.3	8126.5	8109.8	4720.4
82.5°	597.4	603.7	658.2	683.3	939.0	876.2	913.9	2976.4	3297.1	3406.1	1704.1
85°	377.3	396.2	582.7	524.0	561.8	513.5	450.7	1182.2	1456.8	1435.8	681.2
87.5°	115.3	121.6	197.0	222.2	249.4	224.3	165.6	348.0	425.5	461.1	169.8
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°	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6	4680.6
2.5°	4707.8	4684.8	4603.0	4535.9	4473.1	4403.9	4345.2	4328.4	4313.7	4307.5	4305.4
5°	4751.8	4682.7	4521.3	4389.2	4284.4	4188.0	4127.2	4099.9	4072.7	4072.7	4081.1
7.5°	4814.7	4688.9	4439.5	4242.5	4110.4	4020.3	3976.3	3972.1	3978.4	3984.7	3986.8
10°	4883.9	4684.8	4320.0	4074.8	3957.4	3915.5	3917.6	3953.2	3986.8	4011.9	4016.1
12.5°	4951.0	4659.6	4179.6	3917.6	3842.1	3850.5	3909.2	3988.9	4053.8	4089.5	4091.6
15°	5026.4	4619.8	4009.8	3768.8	3743.6	3808.6	3917.6	4039.2	4137.7	4196.4	4202.7
17.5°	5089.3	4552.7	3831.6	3624.1	3655.6	3775.1	3926.0	4083.2	4202.7	4276.0	4288.6
20°	5160.6	4466.8	3647.2	3485.8	3575.9	3737.3	3909.2	4079.0	4202.7	4273.9	4290.7
22.5°	5217.2	4345.2	3471.1	3372.6	3504.7	3691.2	3852.6	3988.9	4089.5	4127.2	4152.4
25°	5240.2	4192.2	3305.5	3280.4	3448.1	3615.8	3724.7	3802.3	3833.7	3829.6	3840.0
27.5°	5227.6	4016.1	3163.0	3207.0	3376.8	3498.4	3552.9	3546.6	3490.0	3437.6	3462.7
30°	5175.2	3806.5	3043.5	3131.6	3284.6	3351.6	3343.3	3261.5	3154.6	3056.1	3062.4
32.5°	5080.9	3580.1	2932.4	3045.6	3154.6	3184.0	3127.4	3020.5	2867.4	2739.6	2720.7
35°	5001.3	3364.2	2833.9	2947.1	3024.7	3010.0	2955.5	2817.1	2678.8	2565.6	2546.7
37.5°	4988.7	3179.8	2739.6	2836.0	2880.0	2859.1	2792.0	2674.6	2624.3	2538.4	2527.9
40°	5055.8	3049.8	2643.2	2718.6	2739.6	2722.8	2649.5	2582.4	2628.5	2607.5	2607.5
42.5°	5238.1	2980.6	2557.2	2601.2	2618.0	2630.6	2578.2	2521.6	2578.2	2481.8	2450.3
45°	5527.4	2982.7	2479.7	2486.0	2536.3	2580.3	2544.7	2460.8	2431.5	2238.6	2200.9
47.5°	5952.9	3054.0	2416.8	2377.0	2467.1	2540.5	2490.2	2368.6	2238.6	2110.8	2087.7
50°	6449.7	3181.9	2360.2	2263.8	2374.9	2490.2	2452.4	2309.9	2175.7	2098.2	2083.5
52.5°	7000.9	3343.3	2291.0	2138.0	2261.7	2467.1	2460.8	2301.5	2117.0	2064.6	2052.1
55°	7682.2	3502.6	2205.1	1991.3	2161.1	2448.2	2437.8	2232.3	2104.5	2066.7	2062.6
57.5°	8474.5	3733.1	2081.4	1842.5	2045.8	2370.7	2347.6	2190.4	2062.6	2035.3	2033.2
60°	9751.0	4091.6	1905.3	1706.2	1928.4	2234.4	2263.8	2119.1	1995.5	1989.2	1987.1
62.5°	11430.0	4594.6	1723.0	1565.8	1792.2	2058.4	2142.2	2022.7	1924.2	1955.7	1959.8
65°	13748.2	5018.0	1534.3	1446.3	1641.2	1888.6	2026.9	1932.6	1844.6	1905.3	1905.3
67.5°	15259.5	5026.4	1362.5	1322.6	1488.2	1746.0	1905.3	1825.7	1741.8	1844.6	1848.7
70°	14945.1	4403.9	1219.9	1192.7	1339.4	1593.0	1771.2	1708.3	1611.9	1704.1	1670.6
71°	14437.9	4058.0	1163.3	1142.4	1280.7	1519.7	1708.3	1655.9	1559.5	1620.3	1601.4
72.5°	13628.8	3523.5	1071.1	1075.3	1192.7	1427.4	1620.3	1565.8	1469.4	1502.9	1496.6
75°	11520.1	3077.1	916.0	934.9	1025.0	1270.2	1444.2	1402.3	1303.8	1303.8	1297.5
77.5°	7202.2	2150.6	760.9	771.4	869.9	1087.9	1240.9	1205.3	1110.9	1079.5	1071.1
80°	2687.2	1110.9	595.3	607.9	668.7	857.3	1027.1	993.5	897.1	861.5	828.0
82.5°	1016.6	557.6	438.1	427.6	492.6	654.0	804.9	765.1	689.6	603.7	578.5
85°	383.6	276.7	268.3	259.9	289.3	387.8	498.9	490.5	410.8	350.0	343.8
87.5°	100.6	90.1	104.8	77.6	81.7	73.4	75.5	31.4	14.7	6.3	4.2
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)