

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: P531938

Luminaire Tested: **GALN-SA7B-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31509 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

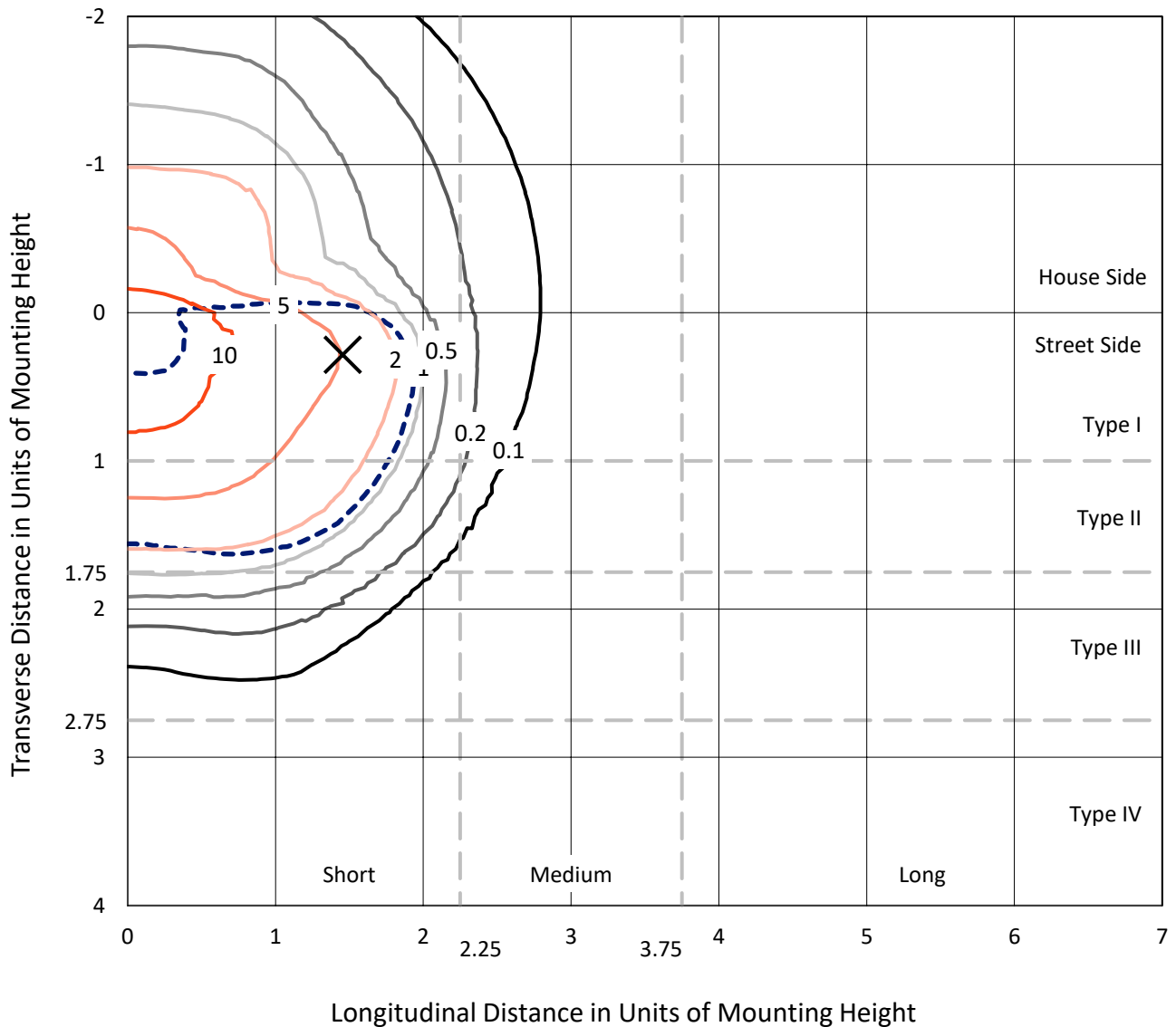
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

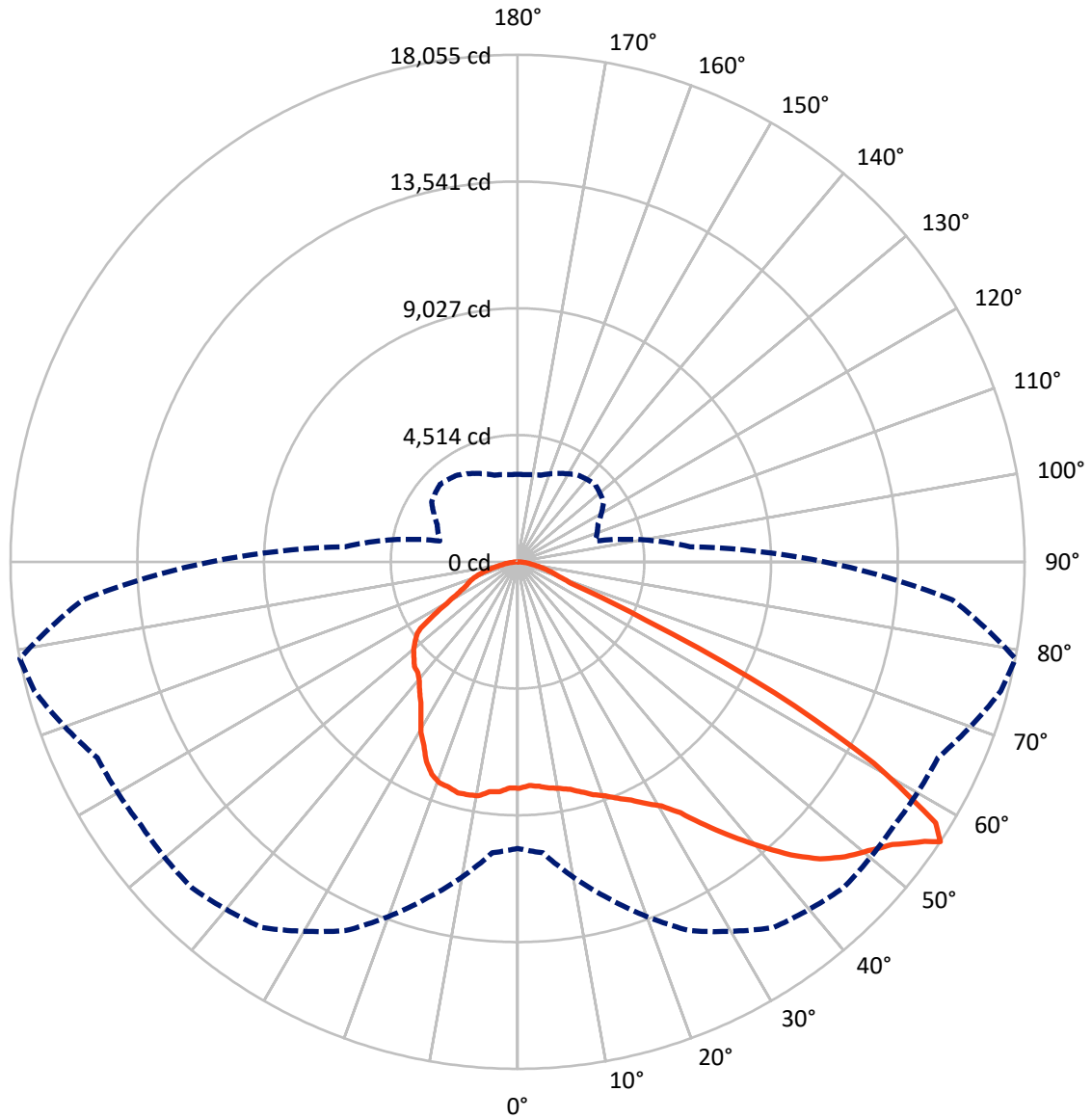
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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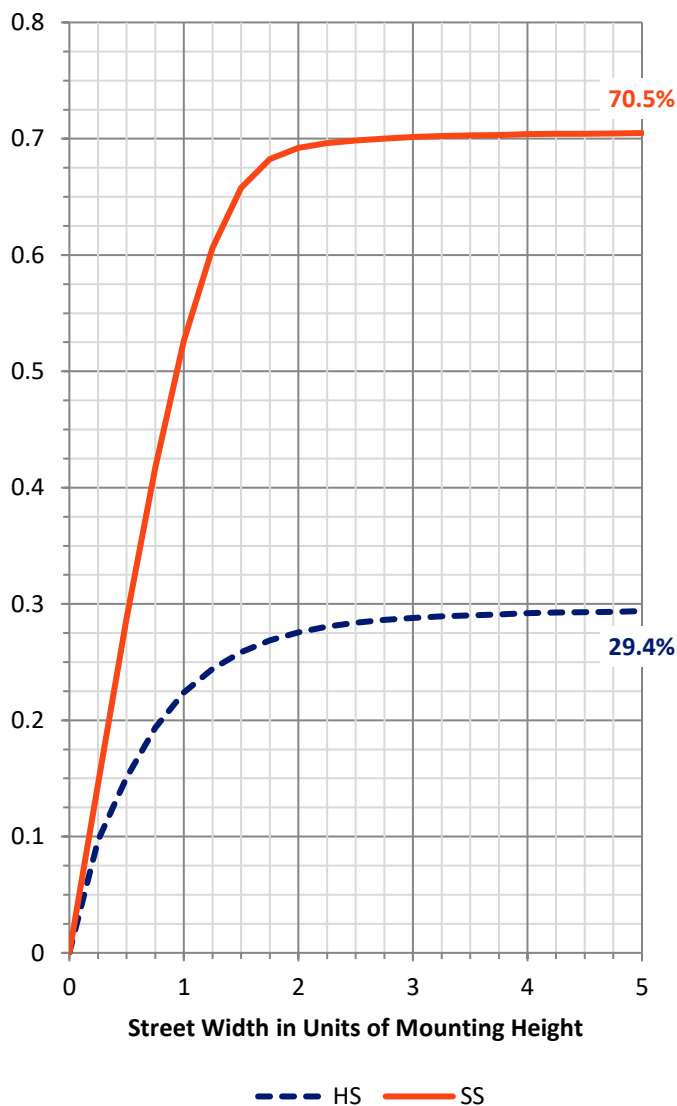
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9305.3	0.0	9305.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	22203.7	0.0	22203.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	31509.0	0.0	31509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.0	2.3
10°-20°	2006.0	6.4
20°-30°	3431.8	10.9
30°-40°	5259.7	16.7
40°-50°	7108.4	22.6
50°-60°	8164.3	25.9
60°-70°	3721.5	11.8
70°-80°	917.5	2.9
80°-90°	166.8	0.5
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°	31509.0	100.0
0°-180°	31509.0	100.0

Coefficient of Utilization

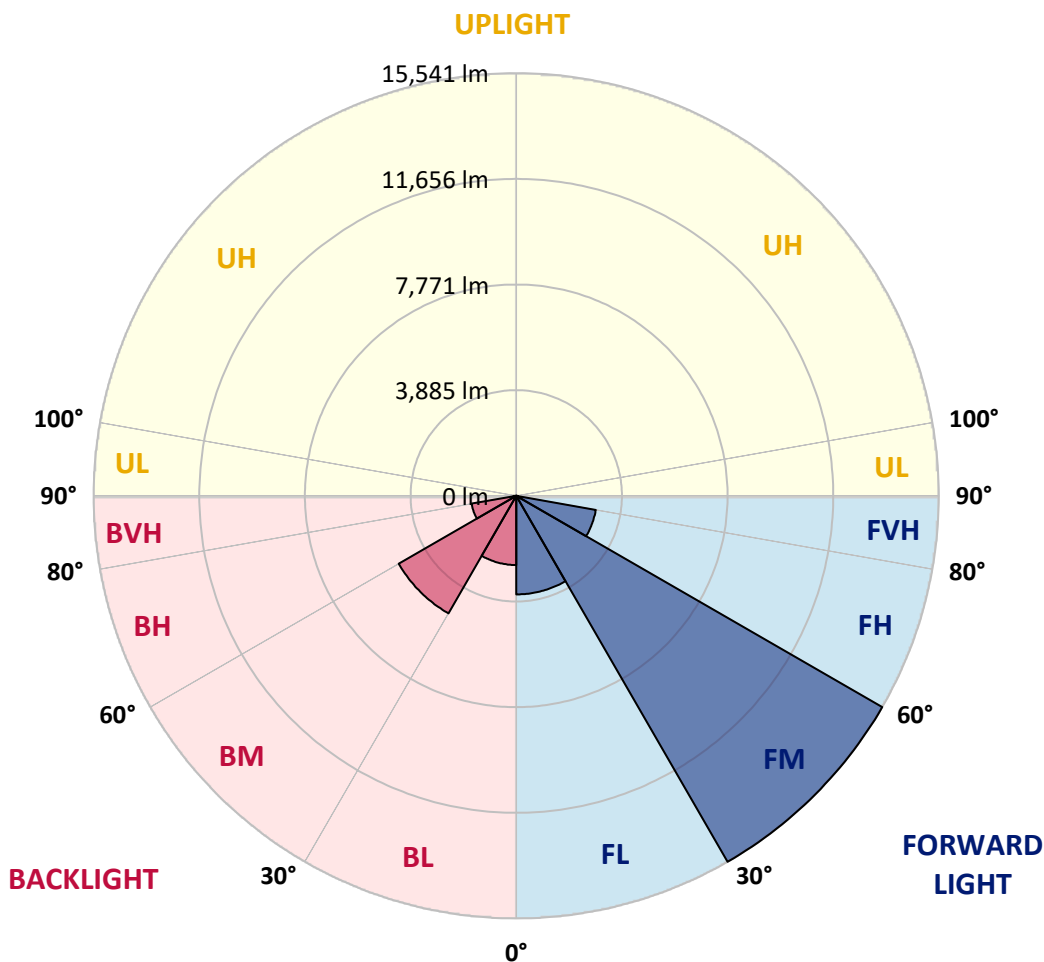


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3625.4	11.5			
FM (30°-60°)	15541.2	49.3			
FH (60°-80°)	2970.6	9.4			G2/5000
FVH (80°-90°)	66.6	0.2			G1/100
BL (0°-30°)	2545.4	8.1	B4/5000		
BM (30°-60°)	4991.2	15.8	B3/5000		
BH (60°-80°)	1668.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	100.2	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9
2.5°	7669.4	7649.8	7696.9	7732.2	7775.4	7830.3	7857.8	7873.5	8010.9	7975.6	8081.5
5°	7504.6	7453.5	7488.9	7516.3	7590.9	7657.6	7732.2	7850.0	7975.6	8030.5	8160.0
7.5°	7359.3	7331.9	7324.0	7343.6	7445.7	7532.0	7661.6	7834.3	8038.4	8128.6	8203.2
10°	7119.9	7080.7	7139.5	7269.1	7296.5	7477.1	7626.2	7873.5	8050.1	8207.1	8426.9
12.5°	7013.9	6974.7	6986.5	7061.0	7253.4	7426.1	7602.7	7881.4	8254.2	8317.0	8611.4
15°	7182.7	7143.5	7155.2	7135.6	7320.1	7410.4	7689.0	8038.4	8395.5	8501.5	8815.5
17.5°	7567.4	7571.3	7520.3	7477.1	7433.9	7626.2	7818.6	8132.6	8450.5	8717.4	8952.9
20°	8301.3	8171.8	8069.8	7826.4	7759.7	7842.1	8085.5	8387.7	8674.2	8894.0	9160.9
22.5°	8866.5	8878.3	8733.1	8332.7	8187.5	8222.8	8430.9	8678.1	8992.1	9149.1	9455.3
25°	9686.8	9604.4	9447.4	9129.5	8803.7	8831.2	8984.3	9208.0	9294.3	9404.2	9737.9
27.5°	10436.5	10460.1	10150.0	9851.7	9447.4	9368.9	9643.7	9682.9	9537.7	9745.7	9859.5
30°	11198.0	11178.3	10974.2	10624.9	10228.5	10244.2	10365.9	10173.5	9973.4	10087.2	10165.7
32.5°	11986.9	11763.2	11755.3	11441.3	11139.1	10993.9	10844.7	10938.9	10628.8	10652.4	10577.8
35°	12618.8	12650.2	12469.7	12245.9	12096.8	11841.7	11433.5	11602.2	11543.4	11515.9	11194.0
37.5°	13078.0	12956.4	13046.6	12972.1	12830.8	12512.8	12088.9	12249.9	12277.3	12410.8	12037.9
40°	13454.8	13403.8	13643.2	13682.5	13584.3	12897.5	12136.0	12614.9	13027.0	13317.5	12873.9
42.5°	13635.4	13745.3	13996.5	14298.7	14078.9	13344.9	12379.4	12893.6	13812.0	14271.2	13666.8
45°	13878.7	13737.4	14110.3	14663.7	14667.6	13721.7	12614.9	13270.4	14424.3	15091.5	14208.4
47.5°	13631.4	13702.1	14086.7	14789.3	14969.9	14118.1	13250.7	13804.1	15099.4	15692.1	14710.8
50°	13078.0	13219.3	13921.9	14651.9	15197.5	14538.1	13980.8	14381.1	15723.5	16174.8	14793.2
52.5°	12501.1	12579.6	13678.5	14757.9	15299.6	15079.8	14958.1	15177.9	16484.9	16720.4	14895.3
55°	10931.1	11303.9	12873.9	14710.8	15798.0	16057.1	15962.9	16284.7	17348.4	17583.9	15452.6
56°	10204.9	10401.2	12391.2	14491.0	15896.2	16414.3	16367.2	16512.4	17807.6	18054.9	15539.0
57.5°	8862.6	8878.3	10566.0	13517.6	15527.2	16520.2	16473.1	16587.0	17717.4	17548.6	14781.5
60°	5546.0	5789.3	7190.6	10397.3	13203.6	15327.0	15593.9	14679.4	14938.5	14581.3	11500.2
62.5°	2873.1	2837.8	3768.0	6079.8	8764.5	10974.2	11221.5	11178.3	10778.0	10256.0	7512.4
65°	1432.6	1440.5	1970.3	3010.5	4490.2	5746.2	6437.0	6511.5	5447.9	5012.2	3563.9
67.5°	1040.1	1079.4	1416.9	1840.8	2115.6	2366.8	2900.6	2845.6	2154.8	2048.8	1899.7
70°	808.5	843.9	1150.0	1405.1	1275.6	1275.6	1389.4	1436.5	1534.7	1577.8	1628.9
72.5°	588.7	616.2	879.2	969.5	836.0	898.8	1040.1	1150.0	1252.1	1267.8	1326.6
75°	404.3	427.8	577.0	533.8	502.4	620.1	761.4	863.5	938.1	977.3	1012.6
77.5°	263.0	270.8	329.7	278.7	321.8	400.3	494.5	580.9	655.5	686.9	694.7
80°	117.7	129.5	141.3	176.6	223.7	286.5	353.2	423.9	471.0	482.8	506.3
82.5°	66.7	66.7	86.3	125.6	164.8	208.0	255.1	306.1	361.1	372.9	368.9
85°	35.3	35.3	51.0	74.6	102.0	121.7	117.7	121.7	129.5	149.1	145.2
87.5°	11.8	11.8	15.7	15.7	19.6	23.5	19.6	27.5	35.3	35.3	35.3
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°	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9	8061.9
2.5°	8050.1	8085.5	8038.4	8140.4	8140.4	8120.8	8022.7	8054.1	8077.6	8077.6	8097.2
5°	8203.2	8191.4	8222.8	8101.2	8026.6	7999.1	7838.2	7759.7	7693.0	7689.0	7630.2
7.5°	8289.6	8258.2	8246.4	8156.1	7826.4	7626.2	7280.8	7080.7	7037.5	6884.4	6943.3
10°	8426.9	8485.8	8426.9	7936.3	7477.1	7017.9	6680.3	6370.2	6248.6	6150.4	6091.6
12.5°	8709.5	8682.1	8340.6	7677.3	7033.6	6488.0	5985.6	5659.8	5538.1	5451.8	5443.9
15°	8949.0	8811.6	8289.6	7269.1	6342.8	5761.9	5349.7	5118.2	5063.2	5071.1	5106.4
17.5°	9031.4	8937.2	8022.7	6845.2	5828.6	5145.6	4953.3	4918.0	4969.0	5027.9	5043.6
20°	9160.9	9011.8	7912.8	6268.2	5192.7	4761.0	4749.2	4874.8	4969.0	5055.4	5067.1
22.5°	9431.7	9054.9	7555.6	5722.6	4757.1	4647.2	4761.0	4867.0	5012.2	5082.8	5020.0
25°	9510.2	8960.7	7053.2	5067.1	4482.3	4576.5	4698.2	4843.4	4945.5	4984.7	5012.2
27.5°	9576.9	8815.5	6374.2	4631.5	4396.0	4572.6	4698.2	4819.9	4874.8	4910.1	4941.5
30°	9765.3	8772.3	5785.4	4341.0	4341.0	4494.1	4655.0	4686.4	4761.0	4804.2	4859.1
32.5°	9859.5	8474.0	5181.0	4156.6	4286.1	4533.3	4545.1	4604.0	4607.9	4643.2	4584.4
35°	10106.8	8262.1	4619.7	4023.1	4309.6	4494.1	4553.0	4517.6	4325.3	4231.1	4250.8
37.5°	10287.4	8156.1	4215.4	4007.4	4313.6	4537.3	4568.7	4301.8	4101.6	3944.6	3983.9
40°	10774.1	7893.1	3909.3	3979.9	4348.9	4584.4	4498.0	4207.6	3846.5	3685.6	3658.1
42.5°	11146.9	7704.7	3717.0	3948.5	4376.4	4651.1	4462.7	4019.2	3650.2	3501.1	3540.3
45°	11578.7	7661.6	3614.9	3956.4	4423.5	4686.4	4419.5	3874.0	3481.5	3422.6	3410.8
47.5°	11731.8	7351.5	3505.0	3889.7	4411.7	4674.6	4274.3	3764.1	3418.7	3426.5	3457.9
50°	11476.6	7033.6	3422.6	3752.3	4333.2	4568.7	4046.7	3618.8	3383.3	3481.5	3536.4
52.5°	11150.9	6707.8	3253.8	3567.8	4172.3	4403.8	3940.7	3611.0	3348.0	3316.6	3328.4
55°	11249.0	6440.9	3018.3	3316.6	3913.2	4097.7	3822.9	3536.4	3261.7	3143.9	3183.2
56°	10931.1	6166.1	2865.2	3159.6	3736.6	3901.4	3764.1	3469.7	3191.0	3112.5	3112.5
57.5°	10032.2	5243.8	2665.1	2908.4	3363.7	3560.0	3650.2	3430.4	3112.5	2975.1	2979.1
60°	7398.6	3728.7	2390.3	2563.0	2786.7	2943.7	3363.7	3320.5	2916.3	2822.1	2786.7
62.5°	4560.8	2723.9	2194.1	2260.8	2374.6	2504.1	2935.9	3006.5	2708.2	2606.2	2582.6
65°	2555.2	2084.2	2044.9	2072.4	2127.3	2194.1	2437.4	2594.4	2390.3	2233.3	2225.5
67.5°	1868.3	1864.4	1895.8	1919.3	1942.9	1942.9	2001.7	2064.5	2037.1	1911.5	1899.7
70°	1660.3	1672.0	1695.6	1699.5	1707.4	1679.9	1632.8	1613.2	1644.6	1566.1	1550.4
72.5°	1369.8	1409.1	1436.5	1440.5	1397.3	1362.0	1299.2	1232.4	1208.9	1193.2	1189.3
75°	1051.9	1079.4	1091.1	1087.2	1071.5	1020.5	945.9	879.2	836.0	788.9	812.5
77.5°	710.4	749.7	769.3	769.3	745.7	667.2	631.9	580.9	537.7	486.7	494.5
80°	498.5	525.9	557.3	553.4	514.2	474.9	423.9	376.8	341.5	302.2	298.3
82.5°	372.9	388.6	404.3	396.4	368.9	329.7	294.4	251.2	211.9	184.5	184.5
85°	133.4	145.2	176.6	184.5	200.2	200.2	168.8	141.3	113.8	94.2	94.2
87.5°	39.2	39.2	43.2	43.2	39.2	43.2	35.3	39.2	43.2	27.5	27.5
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)