

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: P533224

Luminaire Tested: **GALN-SA8C-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35373 lumens
Efficiency: N/A
Efficacy: 82.5 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

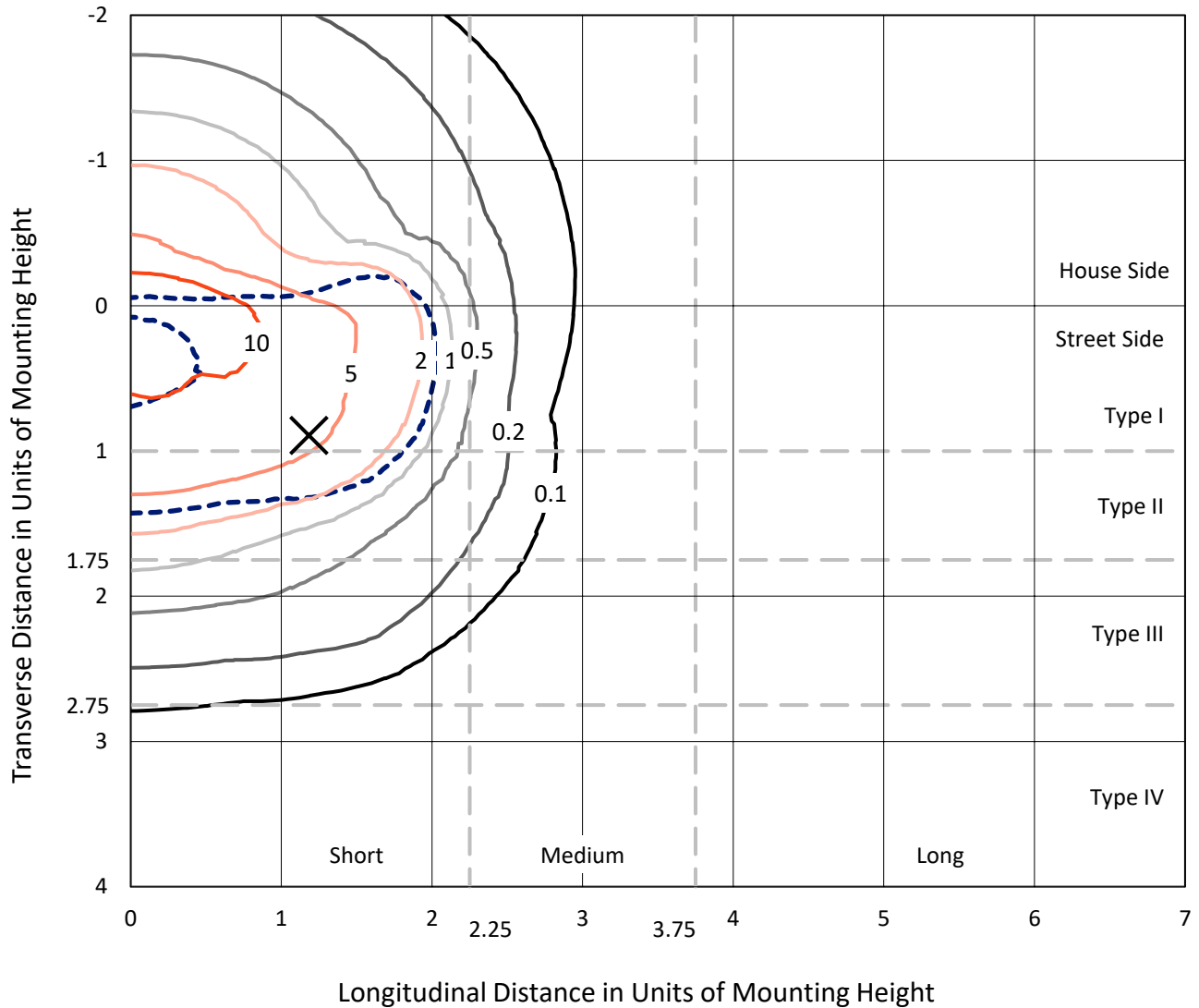
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

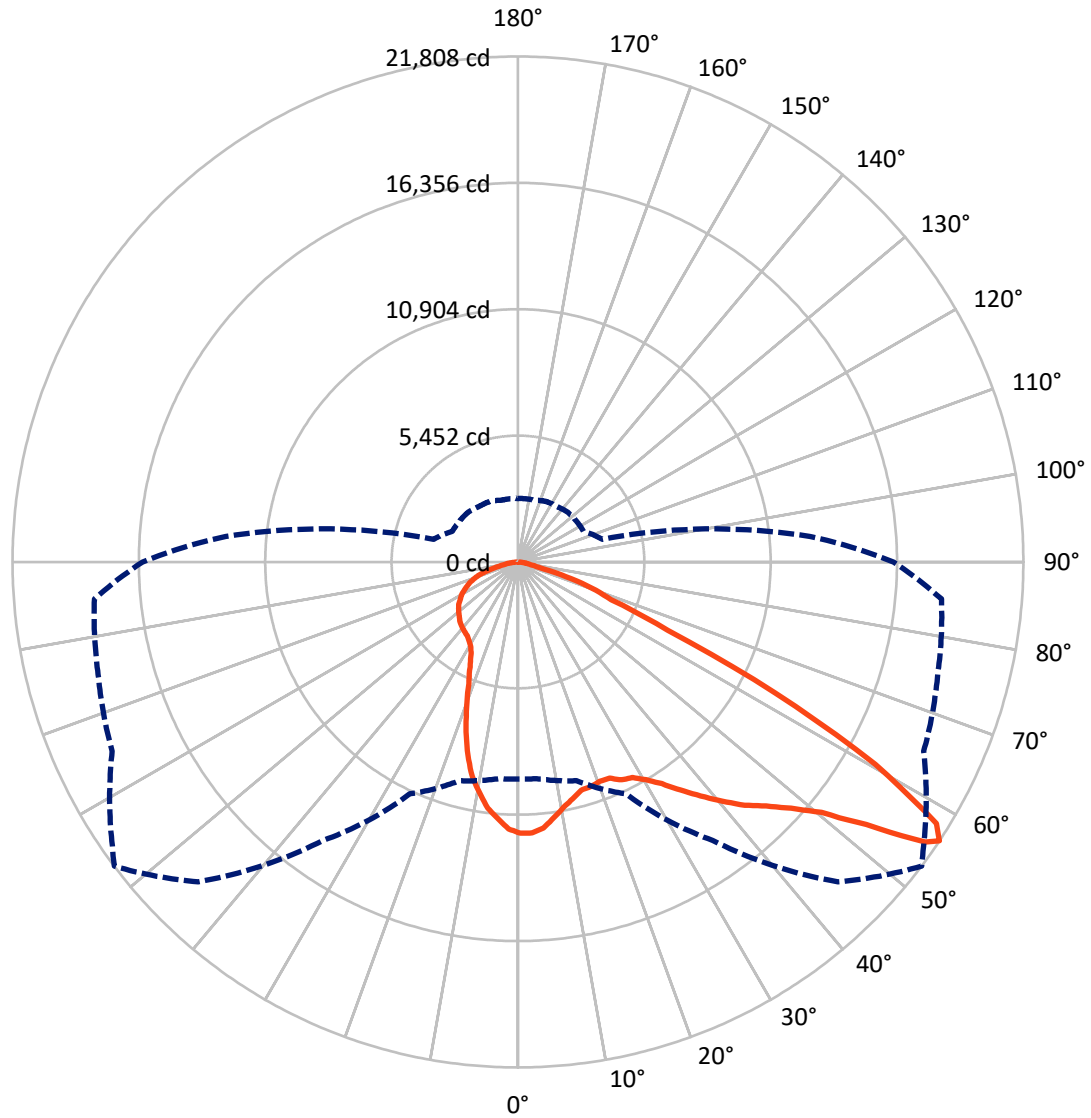
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10322.6	0.0	10322.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	25050.4	0.0	25050.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	35373.0	0.0	35373.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1036.0	2.9
10°-20°	2587.5	7.3
20°-30°	3815.6	10.8
30°-40°	5451.7	15.4
40°-50°	7503.5	21.2
50°-60°	8867.2	25.1
60°-70°	4725.6	13.4
70°-80°	1198.9	3.4
80°-90°	186.9	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°	35373.0	100.0
0°-180°	35373.0	100.0



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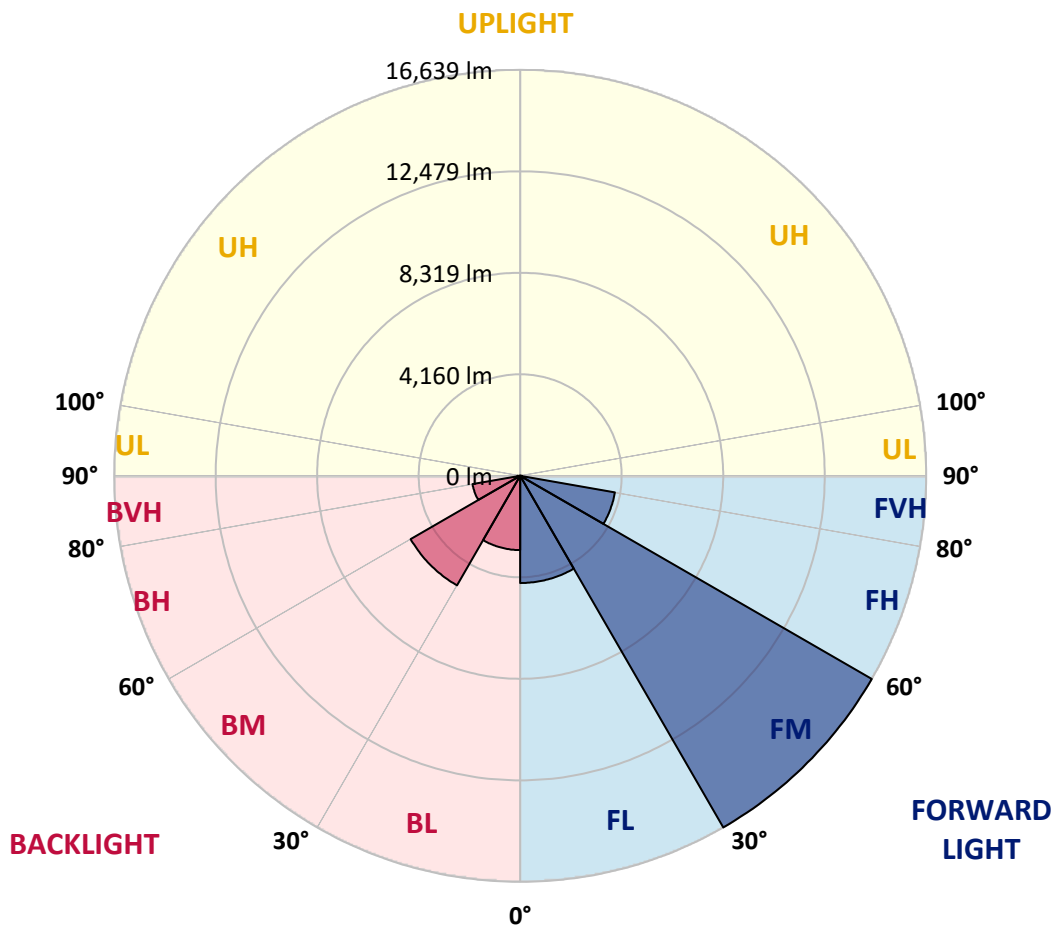
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4394.6	12.4			
FM (30°-60°)	16638.8	47.0			
FH (60°-80°)	3941.9	11.1			G2/5000
FVH (80°-90°)	75.1	0.2			G1/100
BL (0°-30°)	3044.6	8.6	B4/5000		
BM (30°-60°)	5183.7	14.7	B4/8500		
BH (60°-80°)	1982.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	111.8	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°	53°	55°	65°	75°	85°
0°	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8
2.5°	11557.6	11457.7	11516.7	11494.0	11680.1	11734.5	11707.3	11730.0	11834.4	11784.5	11680.1
5°	10799.8	10940.4	10967.7	11035.7	11144.6	11357.9	11525.8	11571.2	11621.1	11852.5	11829.8
7.5°	10110.0	10205.3	10155.4	10355.1	10591.0	10935.9	11140.1	11176.4	11634.7	11761.8	11857.1
10°	9674.4	9579.1	9806.0	9860.5	10128.2	10523.0	10768.0	10917.8	11335.2	11838.9	11897.9
12.5°	9270.6	9238.8	9374.9	9529.2	9828.7	10237.1	10486.7	10545.7	11190.0	11720.9	11997.7
15°	8971.1	8934.8	9070.9	9184.3	9533.8	9896.8	10214.4	10382.3	11031.2	11652.9	11911.5
17.5°	8735.1	8730.6	8807.7	9011.9	9370.4	9674.4	10187.2	10196.3	10949.5	11757.2	11984.1
20°	8721.5	8717.0	8730.6	8957.5	9284.2	9656.3	10101.0	10182.6	10949.5	11684.6	11988.7
22.5°	8834.9	8762.3	8844.0	8989.2	9225.2	9688.0	10132.7	10314.2	11212.7	12043.1	12192.9
25°	9016.5	9034.6	9080.0	9129.9	9266.0	9760.6	10414.1	10563.8	11521.3	12351.7	12474.2
27.5°	9347.7	9338.6	9356.8	9384.0	9502.0	9828.7	10527.5	10913.2	12165.6	12900.7	12778.2
30°	9833.2	9801.5	9874.1	9969.4	9860.5	10046.5	10904.1	11194.6	12764.6	13454.3	13118.6
32.5°	10273.4	10391.4	10527.5	10568.4	10436.8	10473.1	11403.3	11698.2	13263.8	14135.0	13536.0
35°	10822.5	10917.8	11099.3	11226.3	11203.6	11094.7	12084.0	12474.2	13985.3	14634.2	13976.2
37.5°	11357.9	11471.4	11770.8	12147.5	11938.7	11888.8	12810.0	13132.2	14207.6	14901.9	14298.4
40°	12220.1	12215.5	12732.8	12928.0	13114.0	13027.8	13563.2	13672.2	14325.6	14842.9	14307.4
42.5°	13232.0	13168.5	13694.8	13998.9	14239.4	14248.4	14348.3	14312.0	14380.0	14543.4	14212.1
45°	14194.0	14330.1	14861.0	15405.6	15646.1	15673.3	15010.8	14942.7	14475.3	14457.2	14030.6
47.5°	15369.3	15401.0	15836.6	16553.6	17111.7	16921.2	15868.4	15718.7	14892.8	15033.5	14334.7
50°	15437.3	15673.3	16063.5	16907.5	18622.8	18572.9	16980.2	16698.8	15564.4	15850.3	15183.2
52.5°	14012.5	13958.0	14420.9	15800.3	18509.4	20215.5	18822.5	18150.9	17007.4	16789.6	16558.1
55°	10677.3	10804.3	11212.7	12605.8	16072.6	20238.2	21331.8	20782.8	18550.2	18178.1	17910.4
56°	9365.9	9384.0	9769.7	11040.3	14665.9	19516.7	21808.3	21363.6	19317.1	18749.9	18341.5
57.5°	7764.0	7659.7	7859.3	8553.6	12378.9	17992.1	21286.4	21722.1	20215.5	19367.0	18799.8
60°	6112.3	6089.6	6007.9	6135.0	7823.0	13554.2	17719.8	18699.9	20124.8	18786.2	18005.7
62.5°	4991.5	4878.1	5041.4	5222.9	5436.2	8408.4	12451.5	13027.8	15977.3	14997.2	13526.9
65°	3870.7	3816.2	4020.4	4610.3	4737.4	5340.9	7092.5	7537.2	9433.9	9266.0	8158.8
67.5°	2663.6	2672.7	2849.7	3748.2	4392.5	4338.1	4342.6	4574.0	4923.4	3657.4	3185.5
70°	1688.0	1683.5	1778.8	2414.1	3534.9	3571.2	3389.7	3321.6	3149.2	1905.8	2019.3
72.5°	1084.5	1052.8	1102.7	1334.1	1828.7	2114.6	2178.1	2218.9	1824.2	1497.4	1624.5
75°	612.6	580.8	562.7	621.7	721.5	834.9	916.6	943.8	1057.3	1134.4	1202.5
77.5°	186.0	167.9	204.2	272.3	358.5	481.0	585.4	603.5	712.4	803.2	871.2
80°	81.7	90.8	127.1	181.5	254.1	340.3	412.9	440.2	512.8	580.8	599.0
82.5°	49.9	54.5	86.2	122.5	177.0	240.5	295.0	304.0	376.6	431.1	444.7
85°	18.2	22.7	45.4	72.6	113.4	154.3	154.3	167.9	154.3	154.3	167.9
87.5°	0.0	0.0	4.5	9.1	9.1	13.6	18.2	18.2	22.7	27.2	31.8
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°	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8	11702.8
2.5°	11734.5	11711.9	11675.6	11544.0	11530.3	11489.5	11262.6	11226.3	11262.6	11153.7	11162.8
5°	11711.9	11779.9	11507.7	11376.1	11131.0	10954.1	10749.9	10645.5	10459.4	10341.5	10473.1
7.5°	11811.7	11784.5	11444.1	11158.3	10790.7	10341.5	9983.0	9778.8	9452.1	9361.3	9429.4
10°	11775.4	11630.2	11230.9	10854.2	10160.0	9765.2	9184.3	8621.7	8313.1	8154.3	8131.6
12.5°	11725.5	11684.6	11017.6	10368.7	9638.1	8807.7	7990.9	7460.0	6956.3	6738.5	6770.3
15°	11784.5	11439.6	10618.3	9796.9	8825.9	7736.8	6856.5	6171.3	5821.9	5681.2	5681.2
17.5°	11757.2	11321.6	10427.7	9157.1	7927.4	6638.7	5672.2	5259.2	5114.0	5114.0	5154.9
20°	11770.8	11398.8	10042.0	8517.3	6865.6	5590.5	4887.1	4737.4	4800.9	4823.6	4846.3
22.5°	11848.0	11144.6	9665.3	7814.0	5880.9	4782.8	4437.9	4442.4	4555.9	4678.4	4655.7
25°	11943.3	11044.8	9207.0	7115.1	5127.6	4388.0	4279.1	4265.5	4351.7	4415.2	4424.3
27.5°	11861.6	10872.4	8739.7	6243.9	4510.5	4124.8	4102.1	4111.2	4138.4	4265.5	4224.6
30°	12129.3	10922.3	8154.3	5513.3	4170.2	4038.6	4011.3	3997.7	4038.6	4074.9	4043.1
32.5°	12460.6	10745.3	7718.7	4810.0	4002.3	3975.0	3920.6	3902.4	3925.1	3888.8	3907.0
35°	12605.8	10713.6	7151.4	4306.3	3870.7	3848.0	3816.2	3811.7	3816.2	3784.5	3757.2
37.5°	12687.5	10863.3	6502.6	4074.9	3789.0	3811.7	3739.1	3730.0	3648.3	3666.5	3680.1
40°	12828.1	10631.9	5976.2	3852.5	3739.1	3693.7	3630.2	3616.6	3562.1	3530.3	3562.1
42.5°	12623.9	10563.8	5458.9	3757.2	3666.5	3616.6	3571.2	3494.0	3475.9	3448.7	3430.5
45°	12460.6	10173.6	4996.0	3639.3	3580.3	3553.0	3466.8	3385.1	3317.1	3344.3	3303.5
47.5°	12583.1	10037.4	4537.7	3539.4	3462.3	3430.5	3344.3	3280.8	3212.7	3180.9	3171.9
50°	13073.2	10291.6	4152.0	3466.8	3362.5	3344.3	3230.9	3158.3	3094.7	3072.0	3081.1
52.5°	14243.9	10985.8	3888.8	3317.1	3267.2	3185.5	3122.0	3031.2	2990.4	2917.8	2963.1
55°	15727.7	12115.7	3820.8	3176.4	3149.2	3076.6	2990.4	2922.3	2845.2	2786.2	2772.5
56°	16204.2	12655.7	3766.3	3122.0	3076.6	3035.7	2922.3	2881.5	2758.9	2745.3	2736.2
57.5°	16589.9	13132.2	3775.4	3017.6	2972.2	2935.9	2867.8	2768.0	2686.3	2636.4	2659.1
60°	15718.7	12292.7	3603.0	2858.8	2849.7	2781.6	2686.3	2641.0	2541.1	2482.1	2468.5
62.5°	11684.6	8344.9	2922.3	2654.6	2650.0	2577.4	2468.5	2418.6	2400.5	2318.8	2318.8
65°	6729.4	5232.0	2527.5	2486.7	2450.4	2377.8	2268.9	2228.0	2182.6	2155.4	2132.7
67.5°	2872.4	2713.6	2296.1	2291.5	2250.7	2160.0	2051.0	1987.5	1928.5	1874.1	1901.3
70°	2082.8	2114.6	2073.7	2051.0	2001.1	1887.7	1792.4	1715.3	1624.5	1588.2	1615.4
72.5°	1651.7	1719.8	1778.8	1783.3	1724.3	1592.7	1488.4	1384.0	1284.2	1234.3	1256.9
75°	1252.4	1297.8	1356.8	1370.4	1284.2	1193.4	1093.6	984.7	907.5	848.6	857.6
77.5°	903.0	893.9	948.4	939.3	898.5	834.9	744.2	644.4	558.1	503.7	508.2
80°	617.1	630.7	662.5	658.0	608.1	567.2	499.1	417.5	353.9	308.6	299.5
82.5°	431.1	453.8	481.0	458.3	417.5	376.6	326.7	267.7	217.8	181.5	172.4
85°	154.3	177.0	204.2	217.8	231.4	222.3	186.0	149.7	108.9	90.8	86.2
87.5°	31.8	36.3	40.8	40.8	40.8	36.3	31.8	31.8	27.2	13.6	13.6
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)