

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: P955937

Luminaire Tested: **GALN-SB8D-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58790 lumens
Efficiency: N/A
Efficacy: 100.5 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): 584.9
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

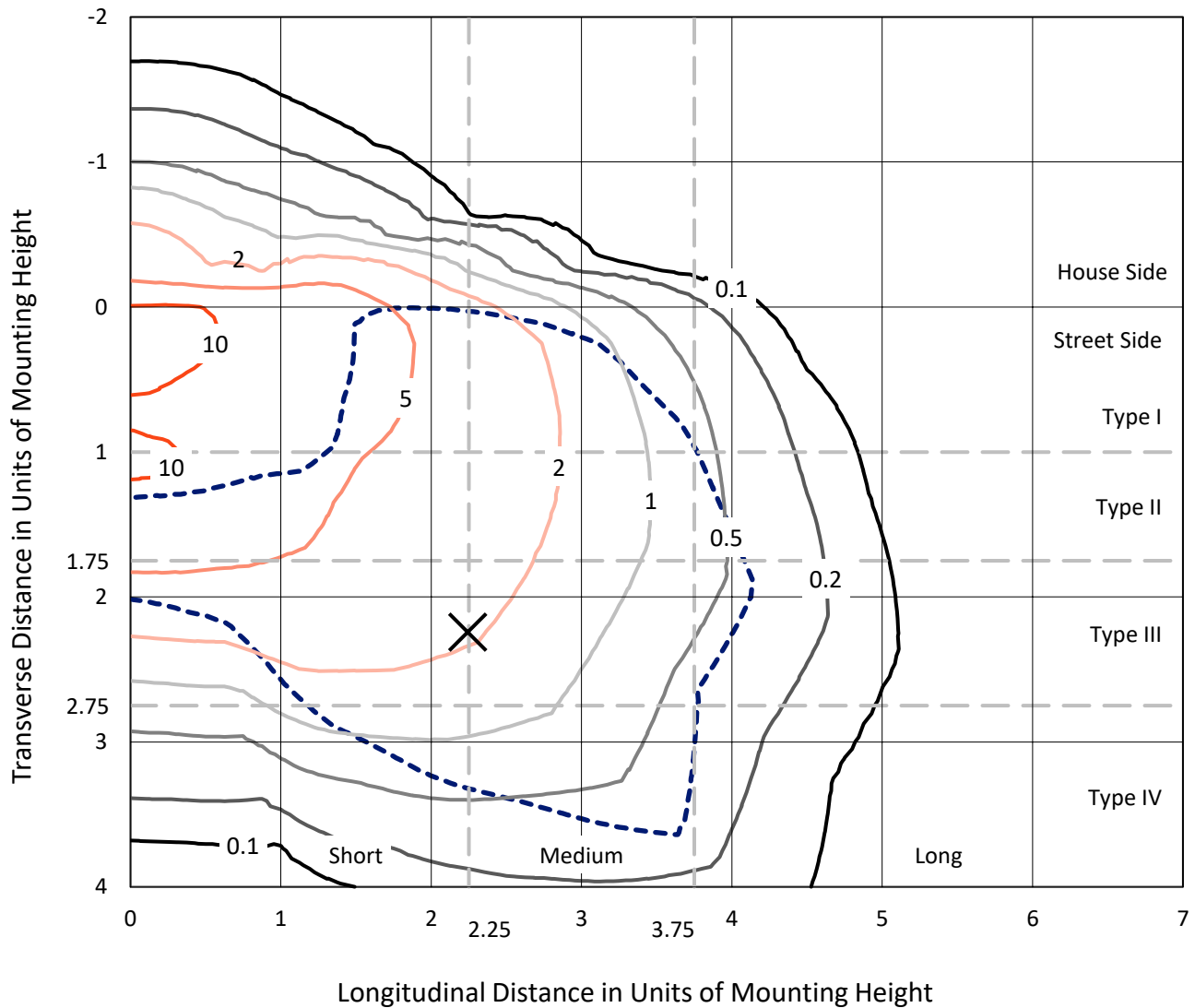


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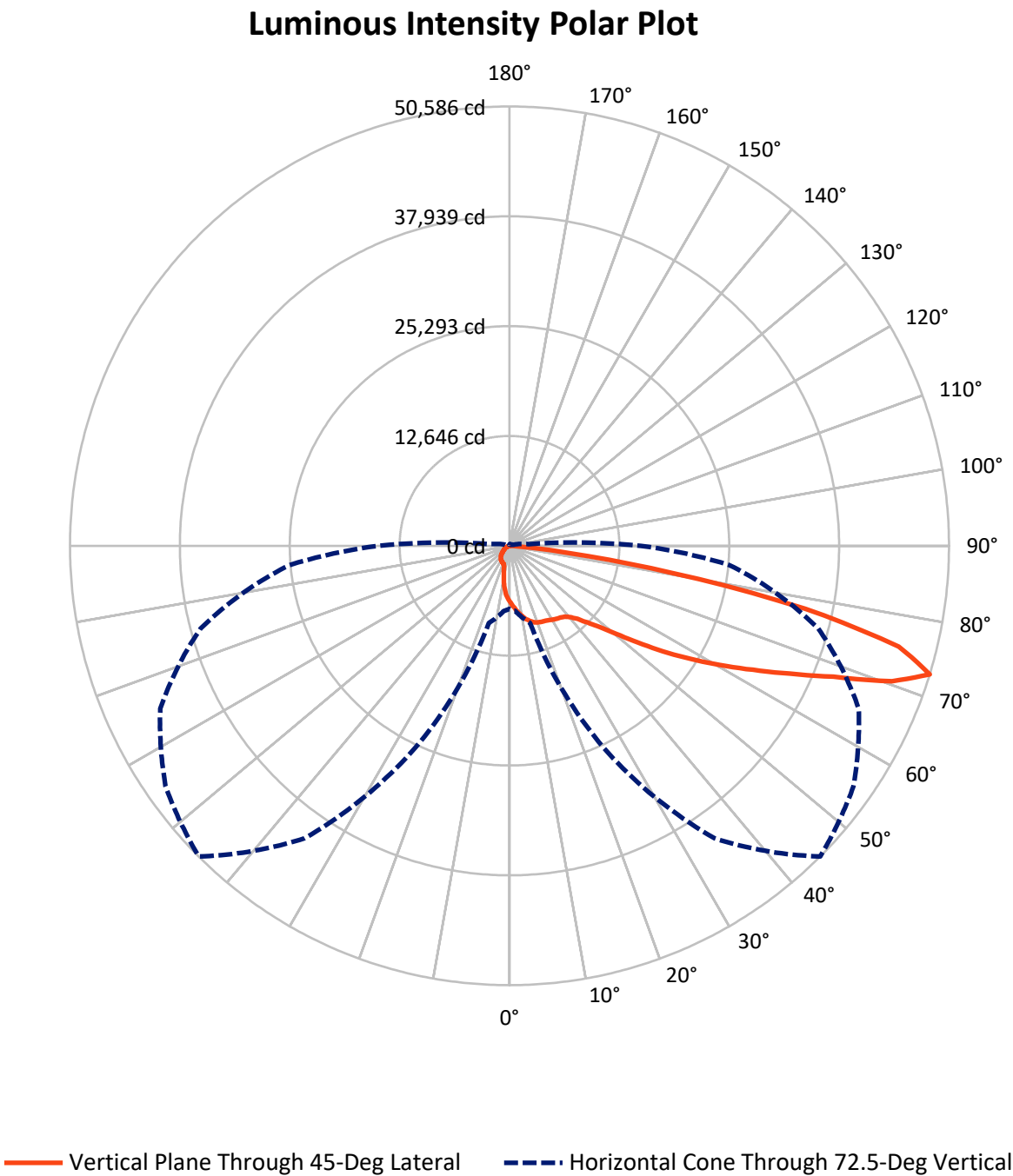
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6177.2	0.0	6177.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	52612.8	0.0	52612.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	58790.0	0.0	58790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.8	1.0
10°-20°	1773.5	3.0
20°-30°	2912.4	5.0
30°-40°	4130.4	7.0
40°-50°	6827.2	11.6
50°-60°	12264.3	20.9
60°-70°	17029.6	29.0
70°-80°	12352.7	21.0
80°-90°	893.1	1.5
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°	58790.0	100.0
0°-180°	58790.0	100.0

Coefficient of Utilization



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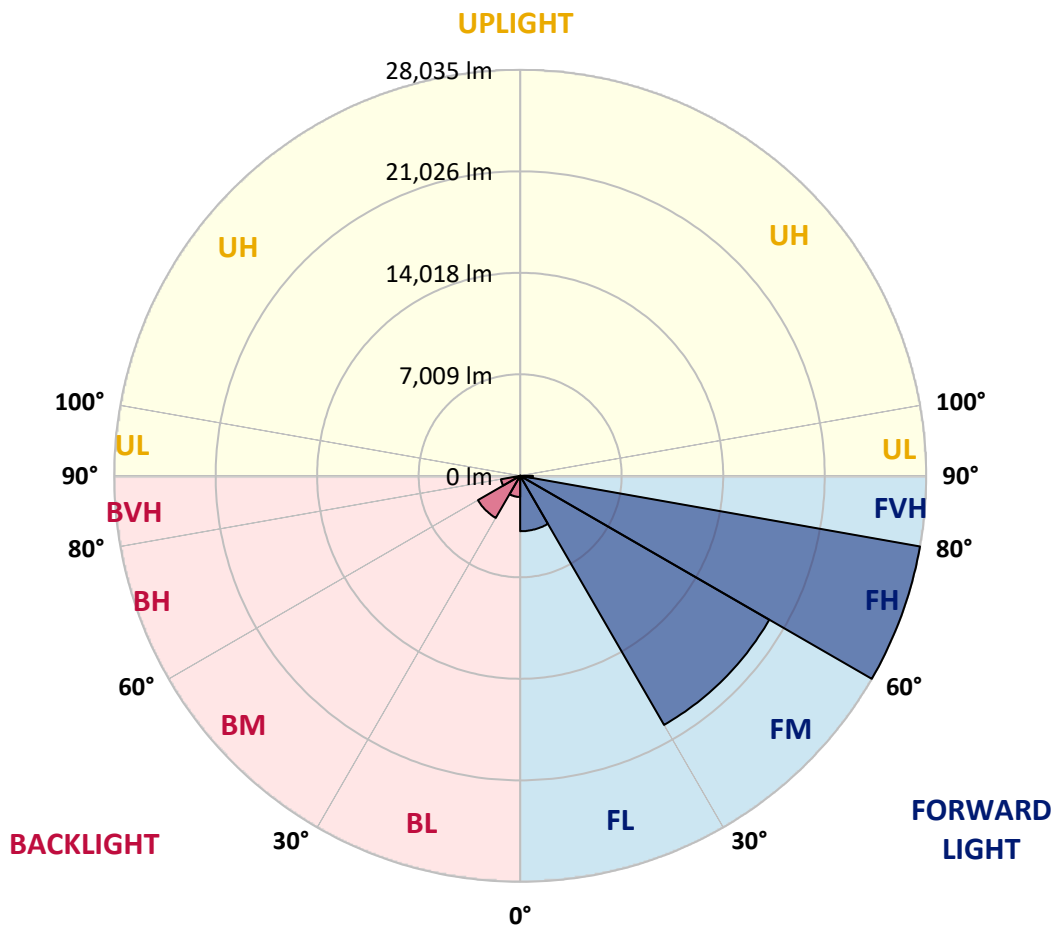
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3829.6	6.5			
FM	(30°-60°)	19862.4	33.8			
FH	(60°-80°)	28035.3	47.7			G5
FVH	(80°-90°)	885.6	1.5			G5
BL	(0°-30°)	1463.1	2.5	B3/2500		
BM	(30°-60°)	3359.5	5.7	B3/5000		
BH	(60°-80°)	1347.0	2.3	B3/2500		G3/2500
BVH	(80°-90°)	7.5	0.0			G0/10
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°	45°	46°	55°	65°	75°	85°
0°	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6
2.5°	7034.5	7046.5	7038.5	6990.3	6910.1	6865.9	6841.9	6761.6	6709.4	6617.1	6520.8
5°	7680.5	7728.7	7700.6	7604.3	7451.8	7343.5	7311.4	7146.8	6998.4	6825.8	6625.2
7.5°	8366.7	8390.8	8338.6	8214.2	8009.6	7825.0	7796.9	7568.2	7331.4	7066.6	6793.7
10°	8960.6	8988.7	8908.5	8727.9	8495.1	8266.4	8226.3	7973.5	7692.6	7367.5	7018.4
12.5°	9458.2	9486.3	9382.0	9165.3	8908.5	8671.7	8631.6	8366.7	8057.7	7696.6	7263.2
15°	9835.4	9887.6	9747.1	9514.4	9237.5	9000.7	8980.7	8719.8	8418.9	8017.6	7556.1
17.5°	10056.1	10108.3	9975.9	9695.0	9458.2	9257.6	9233.5	9016.8	8735.9	8350.7	7841.0
20°	10092.2	10140.4	9999.9	9755.2	9558.5	9398.0	9386.0	9229.5	9024.8	8655.6	8150.0
22.5°	9983.9	10044.1	9915.7	9719.0	9582.6	9498.3	9482.3	9394.0	9277.6	8964.6	8439.0
25°	9871.5	9919.7	9823.4	9650.8	9578.6	9570.6	9582.6	9566.6	9542.5	9277.6	8776.0
27.5°	9863.5	9915.7	9807.3	9642.8	9602.7	9686.9	9699.0	9775.2	9795.3	9562.5	9101.1
30°	9931.7	9967.8	9863.5	9691.0	9670.9	9863.5	9867.5	10004.0	10036.1	9803.3	9422.1
32.5°	10080.2	10120.3	10016.0	9763.2	9735.1	10004.0	10016.0	10196.6	10248.7	10060.1	9759.2
35°	10429.3	10477.5	10357.1	9963.8	9863.5	10136.4	10172.5	10385.2	10489.5	10333.0	10108.3
37.5°	11300.1	11159.6	10995.1	10369.1	10156.4	10345.0	10405.2	10654.0	10838.6	10658.0	10525.6
40°	13463.0	13021.6	12507.9	11059.3	10670.1	10790.5	10838.6	11087.4	11340.2	11163.7	11099.4
42.5°	16709.4	16187.7	15361.1	12648.4	11444.6	11504.7	11540.9	11757.6	12114.7	11974.2	11990.3
45°	19602.6	19414.0	18571.3	15361.1	12893.2	12596.2	12640.4	12752.7	13278.4	13226.2	13330.6
47.5°	21825.7	21717.4	21067.3	18475.0	15341.0	13932.5	14056.9	14109.1	14867.5	15052.1	15333.0
50°	23535.2	23495.0	22913.2	21243.8	18539.2	15902.8	15946.9	15834.6	16970.2	17427.7	17961.4
52.5°	25148.3	25284.8	24855.4	23816.1	21954.1	18483.0	18475.0	17945.3	19478.2	20168.4	21079.3
55°	26605.0	26653.1	26697.3	26440.4	25389.1	21420.4	21344.2	20477.4	22387.5	23101.8	24088.9
57.5°	27973.3	27993.4	28386.7	28912.3	28964.5	24574.5	24434.0	23394.7	25565.7	26075.3	26681.2
60°	28892.3	28984.6	29815.2	31275.9	31913.9	27828.9	27752.6	26693.3	28800.0	29036.7	28924.4
62.5°	27568.0	28129.8	30224.5	33121.8	34698.8	31436.4	31400.3	30405.1	32202.8	32010.2	31047.2
65°	22315.3	23266.3	26950.1	34369.8	37431.5	35465.3	35517.4	34458.1	35698.0	35072.0	32772.7
67.5°	15609.9	16613.1	20971.0	34470.1	40485.3	40196.4	40497.3	38836.0	39409.9	38005.4	33182.0
70°	10794.5	11312.1	14149.2	32311.2	42864.9	46713.2	46705.2	44213.2	43101.7	39341.6	31095.3
72.5°	7259.2	7528.0	9189.3	25633.9	41115.3	50585.6	50352.8	48322.3	44345.6	36793.5	25405.1
75°	3061.8	3258.4	4253.6	14406.0	32527.9	46279.8	45649.8	42704.4	39401.8	28972.5	15850.6
77.5°	971.1	1055.4	1677.4	5156.5	17917.2	34787.1	34121.0	26669.2	26408.3	14534.4	5794.5
80°	461.5	537.7	943.0	2070.6	7050.5	18920.4	18828.1	12098.6	11360.3	3924.5	1163.7
82.5°	200.6	236.8	521.7	1107.5	3154.1	6749.6	6886.0	4117.1	3406.9	1488.8	357.1
85°	64.2	84.3	240.8	509.6	1332.3	1677.4	1657.3	979.1	1372.4	810.6	124.4
87.5°	0.0	0.0	80.3	116.4	136.4	96.3	108.3	84.3	381.2	224.7	44.1
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°	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6	6440.6
2.5°	6472.7	6408.5	6296.1	6191.8	6099.5	6007.2	5951.0	5870.7	5862.7	5862.7	5882.8
5°	6516.8	6412.5	6211.8	5999.2	5754.4	5521.6	5288.9	5064.2	4991.9	4939.8	4963.9
7.5°	6645.2	6480.7	6163.7	5758.4	5292.9	4783.3	4426.1	4040.9	3892.4	3812.2	3824.2
10°	6829.8	6605.1	6123.6	5413.3	4658.9	3964.7	3455.0	3037.7	2877.2	2809.0	2809.0
12.5°	7034.5	6757.6	6051.3	4983.9	3964.7	3134.0	2636.4	2443.8	2419.7	2419.7	2419.7
15°	7279.2	6942.2	5926.9	4478.3	3238.3	2479.9	2303.4	2311.4	2335.5	2351.5	2351.5
17.5°	7532.1	7138.8	5730.3	3912.5	2596.3	2231.1	2235.1	2247.2	2267.2	2283.3	2283.3
20°	7804.9	7335.4	5469.5	3310.6	2227.1	2158.9	2170.9	2183.0	2199.0	2207.0	2211.1
22.5°	8097.9	7520.0	5160.5	2720.7	2102.7	2098.7	2102.7	2114.8	2134.8	2134.8	2142.8
25°	8410.9	7724.7	4807.4	2291.3	2038.5	2038.5	2046.5	2054.6	2070.6	2070.6	2074.6
27.5°	8731.9	7913.3	4434.2	2066.6	1982.3	1978.3	1978.3	1990.4	1998.4	2002.4	2006.4
30°	9085.0	8134.0	4061.0	2018.4	1938.2	1918.1	1906.1	1914.1	1922.1	1926.2	1934.2
32.5°	9446.2	8346.7	3727.9	2038.5	1894.0	1857.9	1817.8	1809.8	1809.8	1825.8	1837.9
35°	9847.5	8579.4	3471.1	2106.7	1870.0	1769.7	1705.4	1669.3	1673.3	1697.4	1709.5
37.5°	10329.0	8860.3	3282.5	2166.9	1853.9	1669.3	1565.0	1520.9	1492.8	1520.9	1512.8
40°	10959.0	9273.6	3146.0	2215.1	1833.9	1553.0	1412.5	1340.3	1288.1	1304.2	1296.1
42.5°	11886.0	9923.7	3093.9	2219.1	1789.7	1416.5	1256.0	1159.7	1083.5	1087.5	1071.4
45°	13186.1	10951.0	3362.7	2166.9	1693.4	1268.0	1091.5	963.1	914.9	902.9	886.8
47.5°	14967.8	12447.8	3984.7	2058.6	1553.0	1123.6	931.0	822.6	786.5	766.4	754.4
50°	17355.4	14369.9	4674.9	1938.2	1412.5	987.2	798.6	730.3	706.3	686.2	682.2
52.5°	20124.3	16320.1	5240.7	1817.8	1272.1	866.8	714.3	674.2	654.1	638.0	634.0
55°	22664.4	17664.4	5208.6	1689.4	1135.6	770.5	654.1	630.0	605.9	589.9	581.9
57.5°	24245.4	17853.0	4293.7	1548.9	979.1	694.2	597.9	581.9	553.8	533.7	529.7
60°	24971.8	16777.6	3009.6	1364.4	822.6	622.0	537.7	529.7	493.6	465.5	457.5
62.5°	25104.2	14779.2	2006.4	1135.6	686.2	553.8	477.5	465.5	417.3	369.2	345.1
65°	24566.5	11922.1	1388.4	886.8	585.9	481.5	409.3	385.2	333.1	284.9	268.9
67.5°	22865.0	8370.7	967.1	638.0	497.6	381.2	325.0	317.0	276.9	236.8	224.7
70°	19747.1	4771.2	646.1	477.5	393.3	260.8	256.8	264.8	224.7	192.6	176.6
72.5°	15140.4	2183.0	401.3	349.1	268.9	176.6	204.7	208.7	172.6	144.5	128.4
75°	8912.5	935.0	252.8	224.7	136.4	116.4	148.5	152.5	116.4	92.3	80.3
77.5°	3033.7	353.1	160.5	132.4	68.2	64.2	96.3	96.3	64.2	36.1	28.1
80°	690.2	132.4	80.3	52.2	32.1	28.1	32.1	28.1	16.1	4.0	0.0
82.5°	196.6	52.2	32.1	20.1	12.0	12.0	4.0	0.0	0.0	0.0	0.0
85°	56.2	24.1	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.1	4.0	0.0	0.0	0.0	0.0	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)