

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: P943828

Luminaire Tested: **GALN-SB8C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

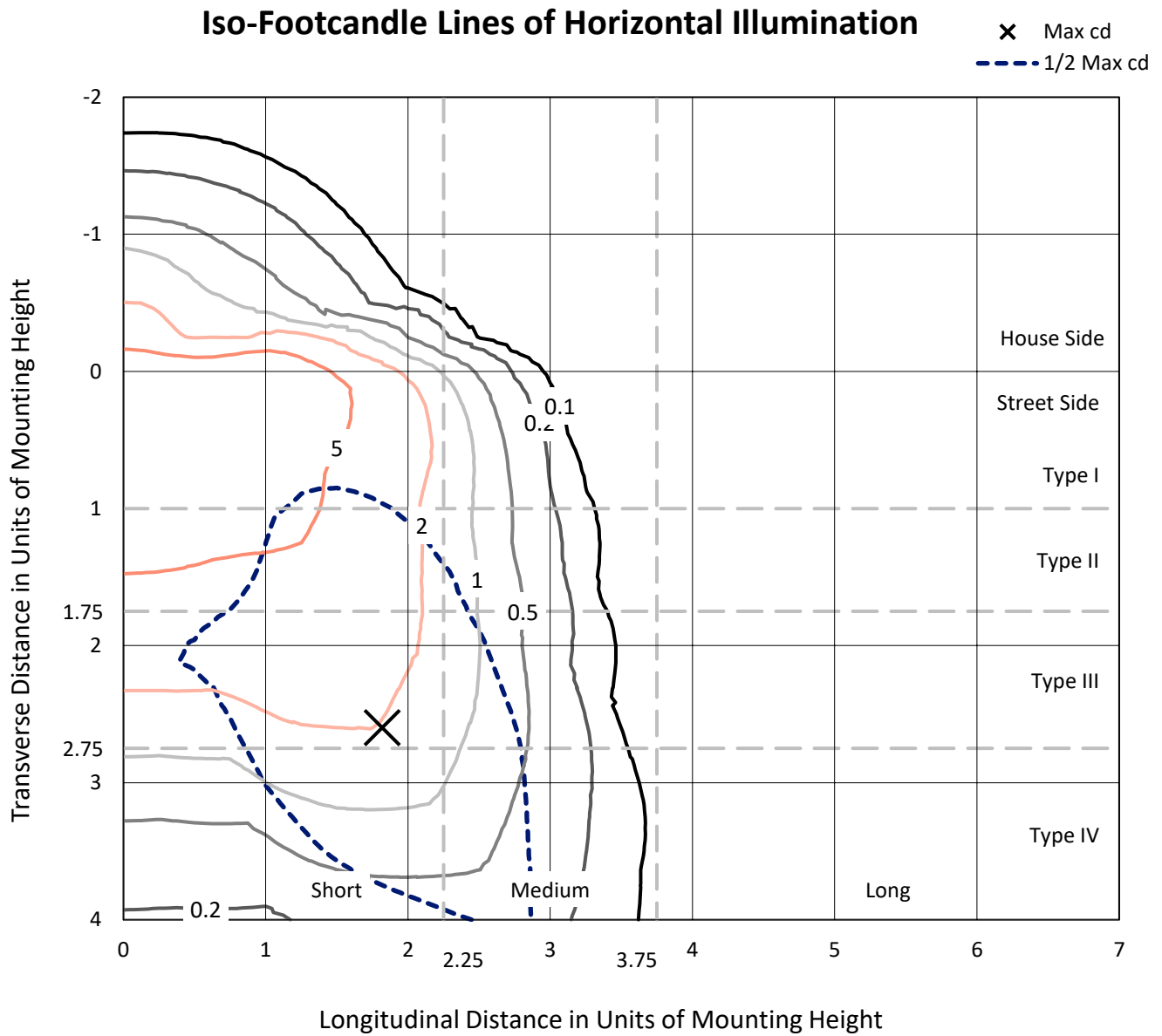
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42529 lumens
Efficiency: N/A
Efficacy: 106.4 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): 399.8
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



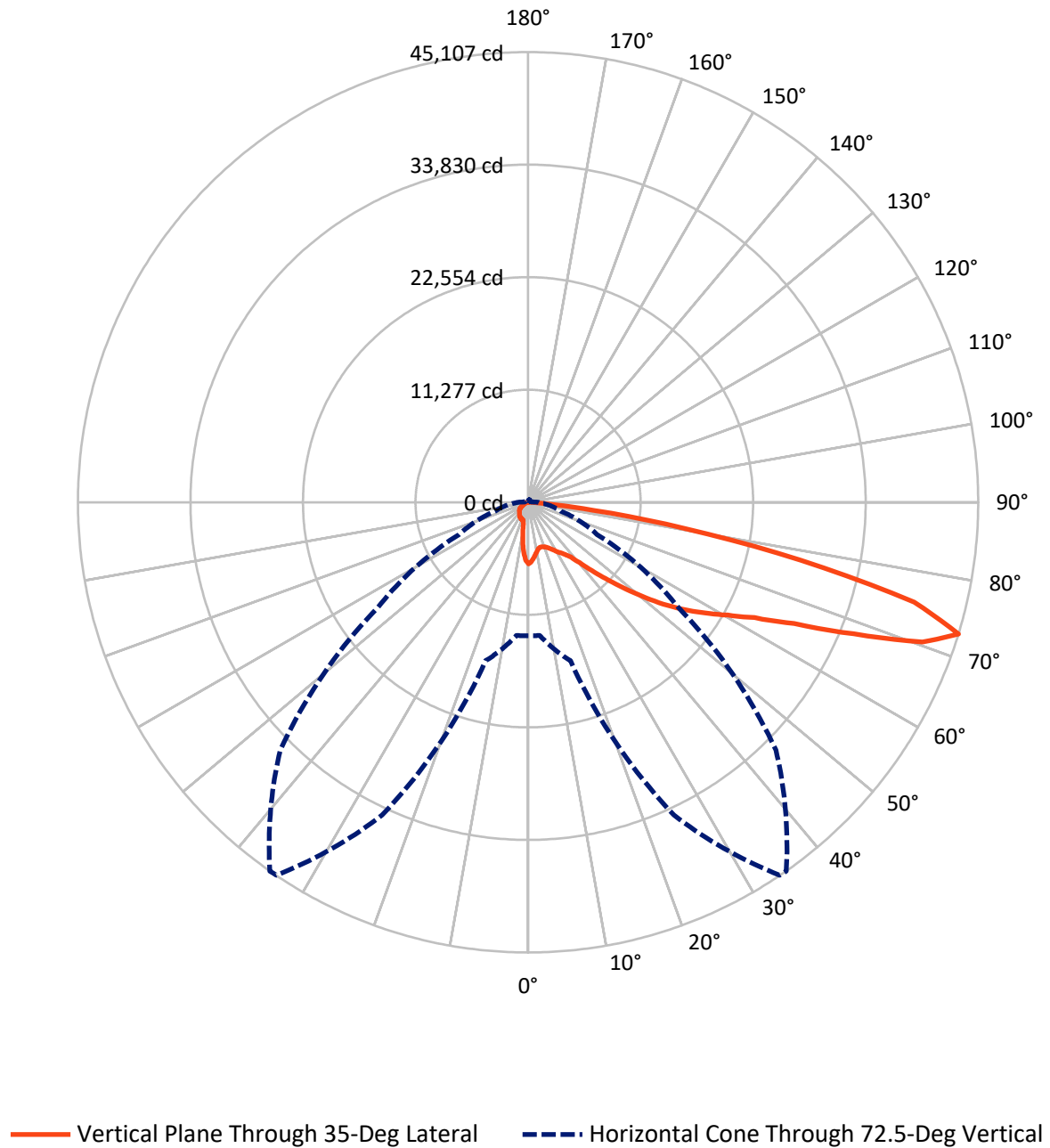
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Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4786.4	0.0	4786.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	37742.6	0.0	37742.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	42529.0	0.0	42529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.5	1.2
10°-20°	1184.9	2.8
20°-30°	1924.9	4.5
30°-40°	3211.6	7.6
40°-50°	6076.4	14.3
50°-60°	9655.4	22.7
60°-70°	11944.4	28.1
70°-80°	7424.8	17.5
80°-90°	600.0	1.4
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°	42529.0	100.0
0°-180°	42529.0	100.0

Coefficient of Utilization



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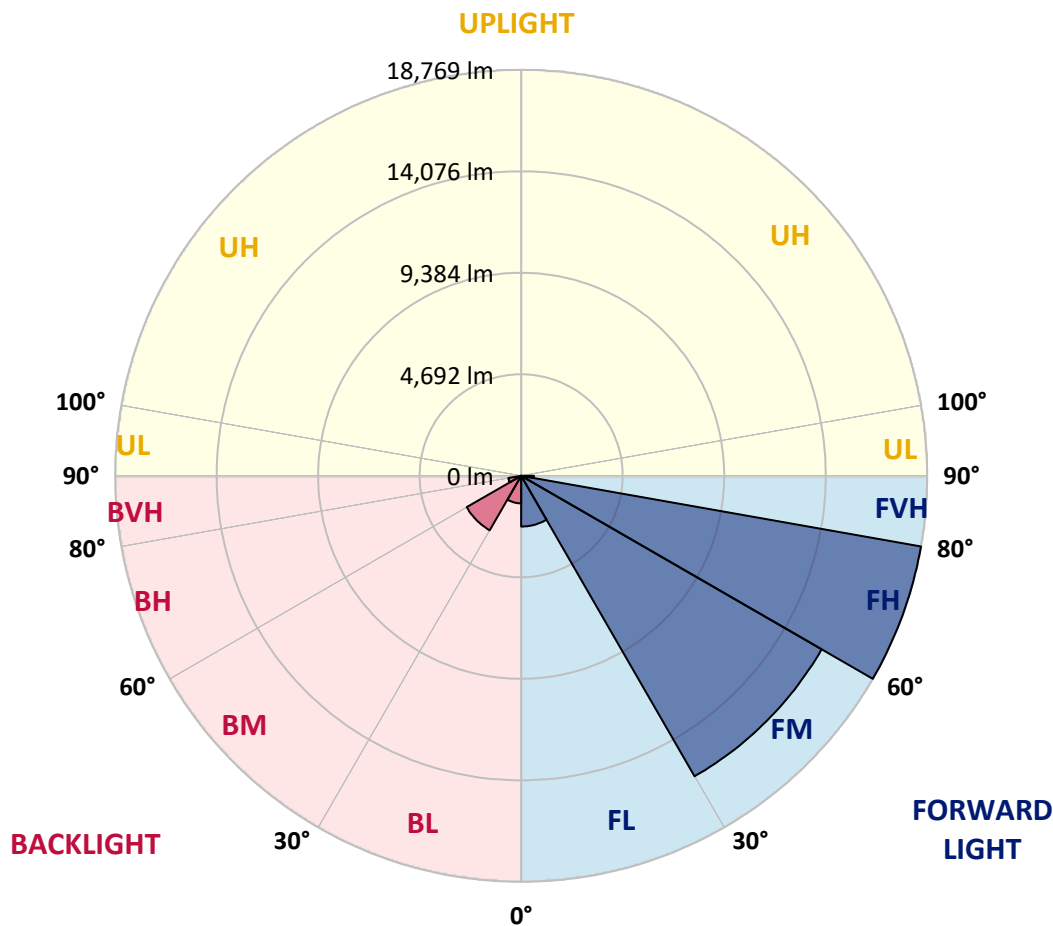
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2344.4	5.5			
FM	(30°-60°)	16037.7	37.7			
FH	(60°-80°)	18768.6	44.1			G5
FVH	(80°-90°)	591.9	1.4			G4/750
BL	(0°-30°)	1271.9	3.0	B3/2500		
BM	(30°-60°)	2905.8	6.8	B3/5000		
BH	(60°-80°)	600.6	1.4	B2/1000		G2/1000
BVH	(80°-90°)	8.2	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°	34°	35°	45°	55°	65°	75°	85°
0°	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9
2.5°	5889.7	5939.5	5948.9	5964.4	5964.4	5983.1	6014.3	6057.9	6129.6	6167.0	6191.9
5°	5428.5	5465.8	5512.6	5550.0	5621.7	5631.0	5752.5	5871.0	6036.1	6160.8	6248.0
7.5°	4964.1	5007.8	5070.1	5160.5	5253.9	5282.0	5465.8	5665.3	5927.0	6160.8	6307.2
10°	4636.9	4640.0	4696.1	4786.5	4936.1	4970.4	5194.7	5478.3	5805.5	6123.4	6363.3
12.5°	4453.1	4474.9	4499.8	4568.4	4711.7	4733.5	4973.5	5306.9	5684.0	6101.6	6428.8
15°	4453.1	4468.7	4484.2	4518.5	4633.8	4652.5	4864.4	5197.9	5621.7	6110.9	6534.7
17.5°	4499.8	4524.7	4512.3	4552.8	4674.3	4686.8	4873.8	5166.7	5618.5	6170.1	6696.8
20°	4612.0	4630.7	4605.8	4630.7	4752.2	4777.2	4970.4	5225.9	5671.5	6272.9	6899.3
22.5°	4789.6	4799.0	4739.8	4758.5	4883.1	4914.3	5138.6	5394.2	5799.3	6438.1	7170.4
25°	5014.0	5032.7	4942.3	4964.1	5082.6	5119.9	5378.6	5646.6	6001.8	6665.6	7516.3
27.5°	5272.6	5282.0	5204.1	5201.0	5353.7	5406.6	5668.4	5958.2	6272.9	6952.3	7952.6
30°	5568.7	5596.7	5521.9	5509.5	5702.7	5746.3	6005.0	6341.5	6671.8	7382.3	8572.7
32.5°	5802.4	5824.2	5780.6	5811.7	6008.1	6042.3	6413.2	6883.7	7298.2	7993.1	9417.2
35°	6138.9	6151.4	6051.7	6107.8	6332.2	6419.4	6971.0	7644.1	8086.6	8759.7	10520.3
37.5°	7357.4	7357.4	6933.6	6656.2	6871.3	6949.2	7734.5	8600.8	9058.8	9788.0	11910.2
40°	9043.3	9015.2	8395.1	7827.9	7799.9	7952.6	8822.0	9806.7	10314.7	11022.1	13474.5
42.5°	10841.3	10797.7	9953.2	9392.3	9298.8	9351.8	10077.8	11293.2	11810.5	12527.2	15157.3
45°	12436.8	12424.4	11651.5	10897.4	10729.1	10897.4	11645.3	13032.0	13402.9	14157.0	16836.9
47.5°	13773.7	13773.7	13209.6	12717.3	12630.0	12729.7	13767.4	14961.0	14926.7	15892.7	18472.9
50°	15313.1	15300.6	14764.6	14552.7	14643.1	14783.3	16210.6	16992.7	16503.5	17597.3	19934.4
52.5°	16391.3	16466.1	16282.2	16248.0	16709.2	16952.2	18691.1	18980.9	17915.1	19214.6	21028.2
55°	17245.1	17332.4	17544.3	17784.3	18672.4	18990.2	21093.7	20866.2	19096.2	20616.9	21657.7
57.5°	18454.2	18329.6	18656.8	19130.5	20567.0	20950.3	23421.5	22645.6	20046.6	21754.3	21726.3
60°	19922.0	19940.7	19996.8	20595.1	22458.6	22950.9	25715.0	24328.3	20657.4	22452.3	20965.9
62.5°	21685.8	21713.8	21829.1	22748.4	24998.3	25462.6	28158.1	25705.7	20937.9	22256.0	19002.7
65°	21564.2	21682.6	22969.6	26113.9	28859.3	29317.4	31009.5	26671.7	20514.1	20461.1	15472.0
67.5°	19644.6	19837.8	21991.1	30133.8	34680.4	35191.4	34456.0	26861.8	18684.8	15911.4	10093.4
70°	17126.7	17195.3	19784.9	33748.6	41420.8	41938.1	37541.1	24770.8	14178.8	8875.0	4521.6
72.5°	13374.8	13390.4	16428.7	34586.9	45079.2	45107.2	35119.8	18388.8	7625.4	3409.1	1570.6
75°	9554.3	9460.8	11003.4	28049.1	39660.1	39978.0	26328.9	8625.7	2913.7	1611.1	782.2
77.5°	5123.1	5225.9	6226.2	16634.4	27397.8	27940.0	14365.8	2486.7	1483.3	1096.9	517.3
80°	1583.0	1670.3	2552.2	7616.0	15518.8	15846.0	5325.6	1106.3	1034.6	782.2	339.7
82.5°	498.6	517.3	1190.4	3200.4	6441.2	6590.8	1542.5	626.4	707.4	517.3	199.4
85°	143.3	146.5	529.8	1193.5	1592.4	1623.5	433.2	243.1	405.1	321.0	102.8
87.5°	15.6	49.9	199.4	199.4	140.2	137.1	46.7	53.0	115.3	40.5	18.7
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°	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9	6163.9
2.5°	6176.3	6179.5	6138.9	6070.4	5995.6	5933.3	5855.4	5793.0	5749.4	5737.0	5758.8
5°	6220.0	6198.2	6082.9	5874.1	5624.8	5409.8	5169.8	4979.7	4855.1	4802.1	4820.8
7.5°	6285.4	6223.1	5970.7	5559.3	5082.6	4658.7	4228.7	3895.3	3683.4	3577.4	3593.0
10°	6341.5	6216.9	5783.7	5104.4	4375.2	3733.2	3153.6	2751.6	2527.3	2421.3	2424.4
12.5°	6394.5	6213.7	5540.6	4565.3	3577.4	2792.1	2253.0	2053.6	1991.3	1969.4	1963.2
15°	6494.2	6223.1	5235.2	3948.2	2782.8	2109.7	1913.4	1910.2	1922.7	1916.5	1913.4
17.5°	6631.3	6232.4	4889.3	3293.8	2147.1	1860.4	1851.0	1879.1	1897.8	1888.4	1885.3
20°	6808.9	6269.8	4521.6	2645.7	1844.8	1798.1	1819.9	1844.8	1860.4	1844.8	1841.7
22.5°	7058.2	6335.3	4119.6	2125.3	1748.2	1760.7	1779.4	1807.4	1823.0	1801.2	1798.1
25°	7363.6	6438.1	3723.9	1847.9	1701.5	1717.0	1745.1	1776.2	1794.9	1773.1	1770.0
27.5°	7759.4	6603.3	3359.3	1785.6	1654.7	1664.1	1704.6	1751.3	1776.2	1748.2	1748.2
30°	8332.8	6874.4	3044.5	1813.6	1626.7	1604.9	1660.9	1726.4	1754.4	1729.5	1726.4
32.5°	9093.1	7257.7	2851.3	1857.3	1614.2	1536.3	1589.3	1673.4	1720.2	1704.6	1704.6
35°	10090.3	7840.4	2776.5	1907.1	1604.9	1464.6	1502.0	1592.4	1673.4	1689.0	1689.0
37.5°	11299.4	8650.6	2798.4	1928.9	1576.8	1405.4	1424.1	1502.0	1608.0	1657.8	1670.3
40°	12673.7	9594.8	2923.0	1907.1	1545.6	1355.6	1358.7	1417.9	1511.4	1586.2	1611.1
42.5°	14091.5	10698.0	3153.6	1826.1	1517.6	1311.9	1302.6	1343.1	1405.4	1458.4	1480.2
45°	15440.9	11832.3	3381.1	1713.9	1483.3	1268.3	1246.5	1262.1	1274.5	1296.3	1308.8
47.5°	16618.8	12630.0	3315.7	1611.1	1436.6	1218.4	1181.0	1174.8	1137.4	1134.3	1131.2
50°	17432.1	12804.5	2944.8	1508.2	1368.0	1162.3	1103.1	1065.7	1000.3	969.1	972.3
52.5°	17690.8	12115.9	2405.7	1405.4	1255.8	1087.6	1003.4	944.2	863.2	835.1	832.0
55°	17348.0	10766.5	1922.7	1280.8	1100.0	987.8	894.4	816.4	751.0	716.7	716.7
57.5°	16509.7	9049.5	1520.7	1134.3	934.9	875.7	782.2	704.3	648.2	613.9	607.7
60°	15119.9	7186.0	1202.9	959.8	797.8	754.1	657.5	607.7	557.8	517.3	507.9
62.5°	13010.2	5129.3	944.2	760.4	666.9	617.0	560.9	523.5	464.3	408.2	398.9
65°	10152.6	3138.0	729.2	557.8	536.0	511.1	476.8	442.5	370.8	314.7	305.4
67.5°	6403.8	1486.4	520.4	420.7	423.8	411.3	395.8	367.7	314.7	264.9	258.6
70°	2820.2	719.8	342.8	321.0	314.7	314.7	327.2	317.9	268.0	221.3	211.9
72.5°	959.8	386.4	255.5	243.1	227.5	224.4	274.2	264.9	215.0	171.4	162.0
75°	501.7	258.6	187.0	174.5	137.1	165.2	218.1	205.7	152.7	112.2	102.8
77.5°	327.2	183.9	127.8	112.2	77.9	109.1	162.0	143.3	90.4	56.1	49.9
80°	205.7	121.5	74.8	53.0	37.4	59.2	87.3	62.3	34.3	12.5	9.3
82.5°	109.1	62.3	28.0	18.7	15.6	18.7	21.8	15.6	6.2	0.0	0.0
85°	43.6	21.8	9.3	6.2	3.1	0.0	6.2	3.1	0.0	0.0	0.0
87.5°	15.6	3.1	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)