

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: P943329

Luminaire Tested: **GALN-SB7D-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71527 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 512.8
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



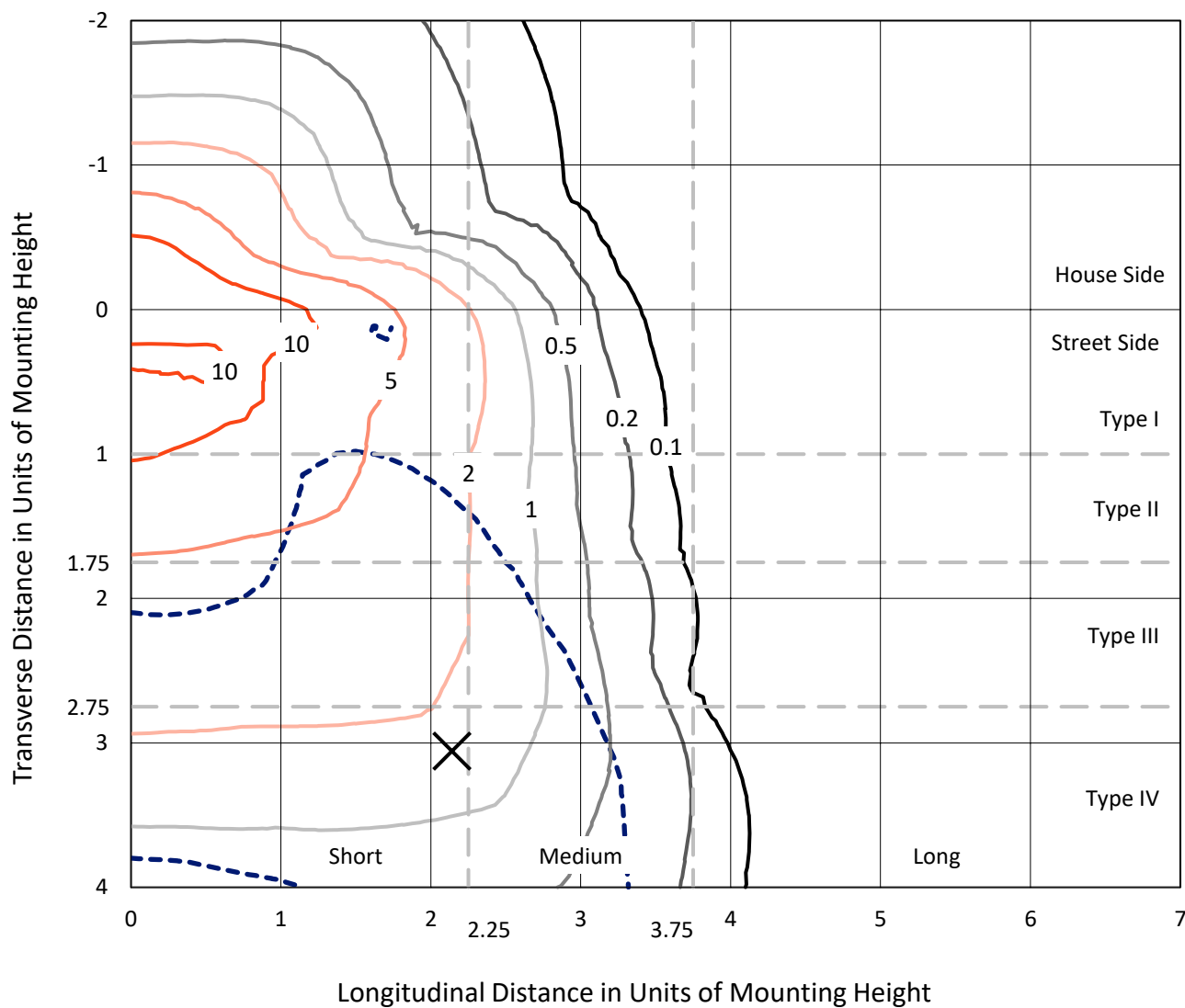
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

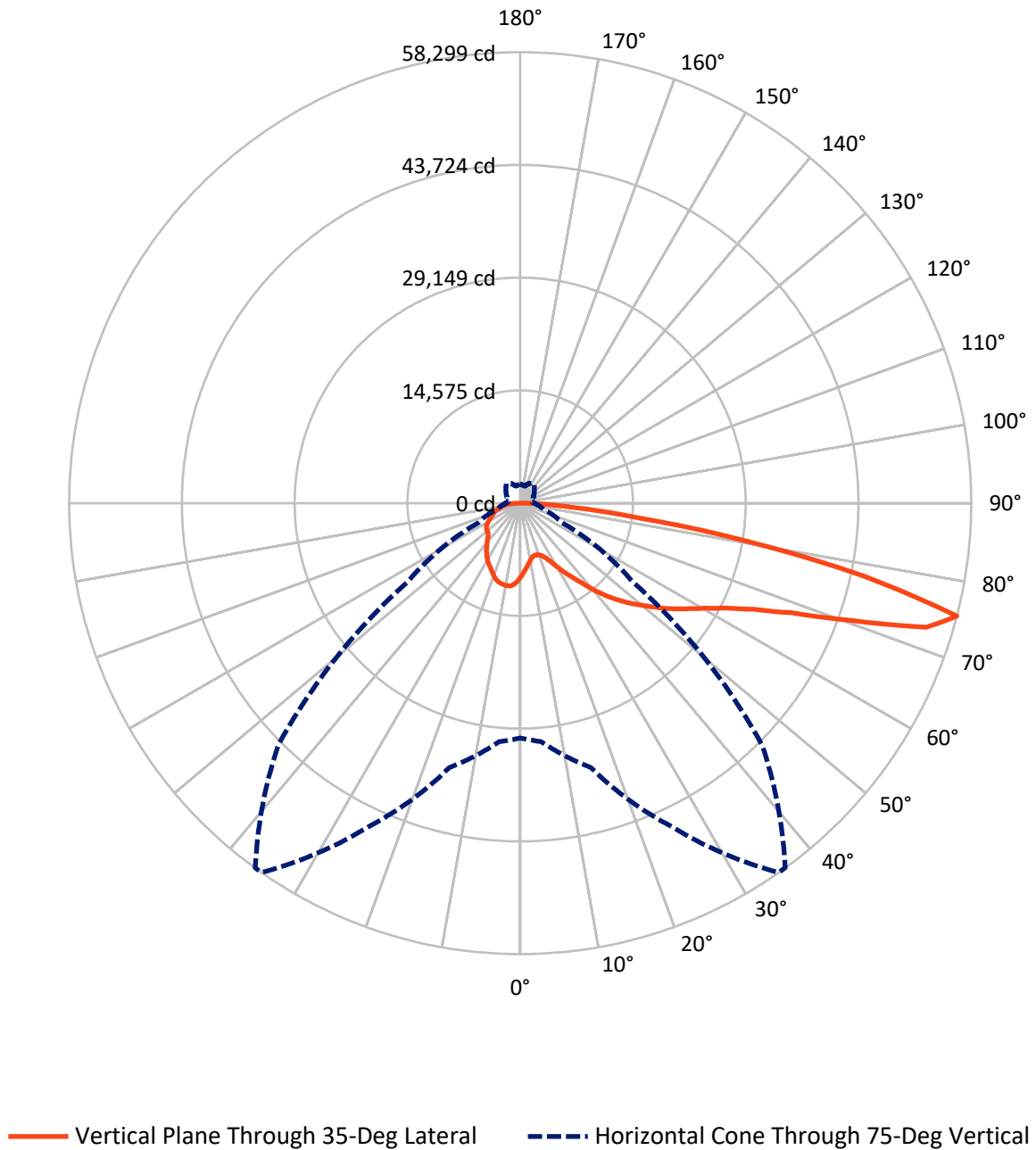


Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17021.6	0.0	17021.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	54505.4	0.0	54505.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	71527.0	0.0	71527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.4	1.3
10°-20°	2603.0	3.6
20°-30°	4371.2	6.1
30°-40°	6793.4	9.5
40°-50°	10083.2	14.1
50°-60°	13920.4	19.5
60°-70°	16888.7	23.6
70°-80°	13957.2	19.5
80°-90°	2007.5	2.8
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°	71527.0	100.0
0°-180°	71527.0	100.0

Coefficient of Utilization



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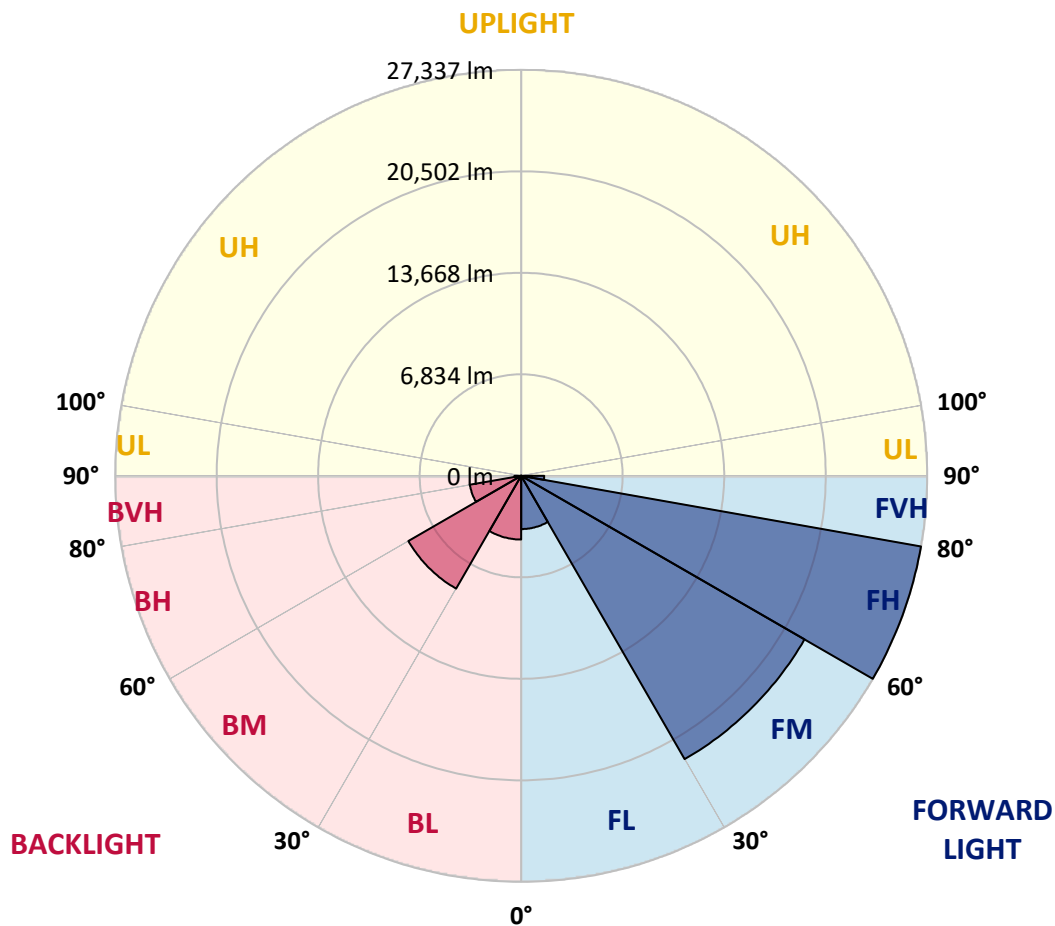
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3586.9	5.0			
FM	(30°-60°)	22026.4	30.8			
FH	(60°-80°)	27336.5	38.2			G5
FVH	(80°-90°)	1555.4	2.2			G5
BL	(0°-30°)	4289.7	6.0	B4/5000		
BM	(30°-60°)	8770.6	12.3	B5		
BH	(60°-80°)	3509.3	4.9	B4/5000		G4/5000
BVH	(80°-90°)	452.0	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5
2.5°	8789.0	8843.2	8866.4	8854.8	8912.8	8905.0	8986.2	9086.8	9226.0	9361.3	9558.5
5°	8112.4	8170.4	8220.6	8267.0	8379.2	8414.0	8541.6	8734.9	8990.1	9249.2	9574.0
7.5°	7482.1	7532.4	7609.7	7694.8	7884.2	7919.0	8131.7	8433.3	8789.0	9168.0	9616.5
10°	6967.8	7018.1	7099.3	7196.0	7431.8	7474.4	7745.0	8147.2	8611.2	9090.7	9662.9
12.5°	6747.4	6762.9	6809.3	6906.0	7110.9	7138.0	7435.7	7895.8	8437.2	9032.7	9732.5
15°	6735.8	6766.8	6770.6	6820.9	6991.0	7002.6	7277.2	7733.4	8328.9	9021.1	9836.9
17.5°	6851.8	6875.0	6840.2	6871.2	7014.2	7033.6	7250.1	7656.1	8294.1	9071.3	10014.8
20°	7161.2	7180.5	7076.1	7033.6	7138.0	7153.4	7366.1	7706.4	8328.9	9175.7	10258.4
22.5°	7818.5	7830.1	7574.9	7400.9	7408.6	7416.4	7602.0	7911.3	8464.2	9365.2	10567.7
25°	8843.2	8835.4	8429.4	8093.0	7899.7	7857.2	7980.9	8243.8	8692.4	9616.5	10966.0
27.5°	10041.9	9983.9	9577.9	9075.2	8653.7	8591.8	8564.8	8676.9	9017.2	9949.1	11453.2
30°	11395.2	11341.1	10904.1	10246.8	9662.9	9562.4	9307.2	9249.2	9500.5	10401.5	12129.9
32.5°	12880.0	12845.2	12323.2	11526.7	10745.6	10629.6	10200.4	10045.7	10242.9	11085.9	13073.4
35°	14125.1	14094.2	13661.1	12841.4	11886.3	11743.2	11306.3	11132.3	11232.8	11963.6	14306.9
37.5°	15250.3	15234.9	14863.7	14217.9	13231.9	13057.9	12566.8	12508.8	12489.5	13119.8	15803.3
40°	16294.3	16255.7	15869.0	15528.7	14797.9	14639.4	14206.3	14156.0	14009.1	14542.7	17496.9
42.5°	17450.5	17350.0	16789.3	16630.7	16433.5	16302.1	16043.0	16050.7	15725.9	16147.4	19291.0
45°	18394.0	18336.0	17759.8	17667.0	17879.7	17825.6	18049.8	18107.8	17477.6	17829.4	21154.8
47.5°	19407.1	19352.9	18865.7	18800.0	19376.1	19391.6	20184.3	20203.6	19186.6	19577.2	23022.4
50°	20656.0	20578.7	20095.3	20176.5	20822.3	20880.3	22330.3	22198.8	20760.4	21352.0	24874.6
52.5°	21479.6	21526.0	21421.6	21553.1	22434.7	22488.8	24441.5	24105.1	22318.7	23103.6	26691.9
55°	22086.7	22179.5	22504.3	22805.9	24136.0	24190.2	26432.9	25918.6	23610.2	24727.7	28401.0
57.5°	22867.8	22736.3	23343.4	23931.1	25752.3	25895.4	28370.1	27666.4	24754.7	26127.4	29572.6
60°	23989.1	23896.3	24368.0	25238.1	27562.0	27790.1	30419.5	29240.1	25593.8	27237.2	29800.8
62.5°	26262.7	26030.7	26104.2	26873.7	29843.3	30144.9	32731.8	30612.8	26011.4	27670.2	28578.9
65°	29661.6	29263.3	28892.1	29425.7	33056.6	33354.3	35341.8	31691.6	25856.7	26831.1	25334.7
67.5°	33942.0	33547.6	33091.4	33594.0	37789.4	38025.3	38562.8	32298.7	24638.7	23598.6	19600.4
70°	37472.4	37325.4	37870.6	39939.3	45348.9	45356.6	42692.4	31796.0	21301.7	16731.3	11341.1
72.5°	37004.5	36915.5	39788.5	46184.1	54876.4	54671.5	46601.7	27991.2	14349.4	7547.8	4249.5
75°	30357.6	30933.7	35384.3	46071.9	58298.5	58271.4	44208.2	17794.6	5935.4	3128.2	2196.3
77.5°	16278.9	17191.4	22972.2	34015.5	45511.3	46195.7	31080.7	6225.4	2548.2	2003.0	1519.6
80°	5309.0	6105.5	9156.4	17319.0	29572.6	29445.0	13320.8	2443.8	1743.9	1419.1	1051.7
82.5°	2254.3	2347.1	4091.0	8178.1	15176.9	14941.0	4241.8	1403.6	1225.7	970.5	649.6
85°	881.6	986.0	1805.8	3781.6	6573.4	6430.3	1531.2	696.0	784.9	634.1	386.7
87.5°	290.0	351.9	645.7	1295.4	2045.5	1972.0	375.1	239.7	340.3	290.0	139.2
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°	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5	9531.5
2.5°	9612.7	9674.5	9748.0	9856.3	9949.1	10026.4	10107.6	10157.9	10177.2	10235.2	10231.3
5°	9682.3	9817.6	9999.3	10177.2	10351.2	10455.6	10548.4	10594.8	10637.3	10668.3	10676.0
7.5°	9798.3	9972.3	10258.4	10490.4	10637.3	10722.4	10784.3	10768.8	10784.3	10792.0	10803.6
10°	9898.8	10142.4	10482.7	10703.1	10815.2	10819.1	10803.6	10749.5	10722.4	10726.3	10734.0
12.5°	10018.7	10289.3	10656.7	10842.3	10873.2	10788.1	10722.4	10629.6	10594.8	10579.3	10571.6
15°	10181.1	10490.4	10846.1	10915.7	10838.4	10730.1	10618.0	10467.2	10389.9	10328.0	10347.3
17.5°	10378.3	10718.5	10993.1	10942.8	10776.5	10598.7	10416.9	10188.8	10030.3	9964.5	9968.4
20°	10652.8	10958.3	11105.2	10884.8	10633.5	10362.8	10053.5	9775.1	9628.1	9562.4	9554.7
22.5°	10985.3	11279.2	11213.5	10784.3	10428.5	9995.5	9608.8	9403.9	9330.4	9284.0	9291.7
25°	11383.6	11635.0	11290.8	10637.3	10092.1	9508.3	9210.5	9144.8	9110.0	9075.2	9075.2
27.5°	11901.8	12037.1	11348.8	10420.8	9566.3	8990.1	8881.8	8893.4	8881.8	8823.8	8835.4
30°	12586.2	12559.1	11402.9	10068.9	8963.0	8522.2	8530.0	8580.2	8588.0	8549.3	8568.6
32.5°	13487.1	13212.6	11430.0	9612.7	8386.9	8112.4	8120.1	8174.2	8212.9	8147.2	8178.1
35°	14577.5	13974.3	11387.5	9040.4	7942.2	7721.8	7663.8	7679.3	7690.9	7629.0	7671.6
37.5°	15849.7	14828.9	11198.0	8406.2	7574.9	7339.0	7215.3	7110.9	7049.0	6991.0	7029.7
40°	17245.6	15760.7	10850.0	7787.6	7165.0	6933.0	6747.4	6550.2	6341.4	6264.1	6298.9
42.5°	18707.2	16719.7	10428.5	7196.0	6693.3	6503.8	6306.6	6020.5	5707.3	5548.7	5568.1
45°	20222.9	17701.8	10014.8	6612.1	6209.9	6128.7	5900.6	5556.5	5216.2	5015.1	4999.7
47.5°	21707.7	18629.8	9407.7	6024.3	5757.5	5846.5	5668.6	5351.5	4972.6	4655.5	4620.7
50°	23126.8	19499.9	8414.0	5428.9	5390.2	5761.4	5591.3	5135.0	4701.9	4295.9	4261.1
52.5°	24534.3	20203.6	7141.8	4887.5	5193.0	5738.2	5490.7	4988.1	4458.3	4033.0	3986.6
55°	25729.1	20567.1	5916.1	4423.5	4906.9	5541.0	5370.9	4814.1	4114.2	3661.8	3623.1
57.5°	26409.7	20273.2	4895.3	3967.3	4512.5	5216.2	5165.9	4442.9	3704.3	3356.3	3309.9
60°	26115.8	19082.2	4060.1	3569.0	4137.4	4864.3	4810.2	4075.5	3391.1	3062.4	3016.0
62.5°	24495.7	16812.5	3398.8	3221.0	3797.1	4504.7	4454.5	3793.2	3151.4	2834.3	2784.0
65°	21232.1	13676.6	2884.6	2931.0	3453.0	4071.7	4145.1	3557.4	2961.9	2652.6	2602.3
67.5°	16193.8	9906.5	2482.4	2679.6	3116.6	3646.3	3859.0	3387.2	2803.4	2509.5	2463.1
70°	9229.9	5626.1	2142.2	2436.0	2818.8	3251.9	3638.6	3251.9	2633.2	2389.6	2358.7
72.5°	3499.4	2583.0	1852.2	2192.4	2532.7	2919.4	3395.0	3039.2	2436.0	2254.3	2223.4
75°	1867.6	1573.8	1558.3	1906.3	2204.0	2594.6	3089.5	2830.4	2289.1	2381.9	2459.2
77.5°	1272.1	1113.6	1303.1	1631.8	1844.4	2235.0	2764.7	2513.4	1983.6	1975.9	1821.2
80°	881.6	788.8	1059.5	1314.7	1426.8	1879.2	2412.8	2157.6	1616.3	1508.0	1442.3
82.5°	529.7	514.3	792.7	982.1	1009.2	1450.0	1999.1	1809.6	1322.4	1152.3	1160.0
85°	290.0	305.5	506.5	576.1	587.7	1013.1	1566.0	1399.8	1016.9	854.5	862.3
87.5°	81.2	104.4	185.6	228.1	282.3	525.9	931.9	831.3	510.4	355.7	355.7
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)