

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: P955559

Luminaire Tested: **GALN-SB8C-722-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955559  
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-SB8C-722-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

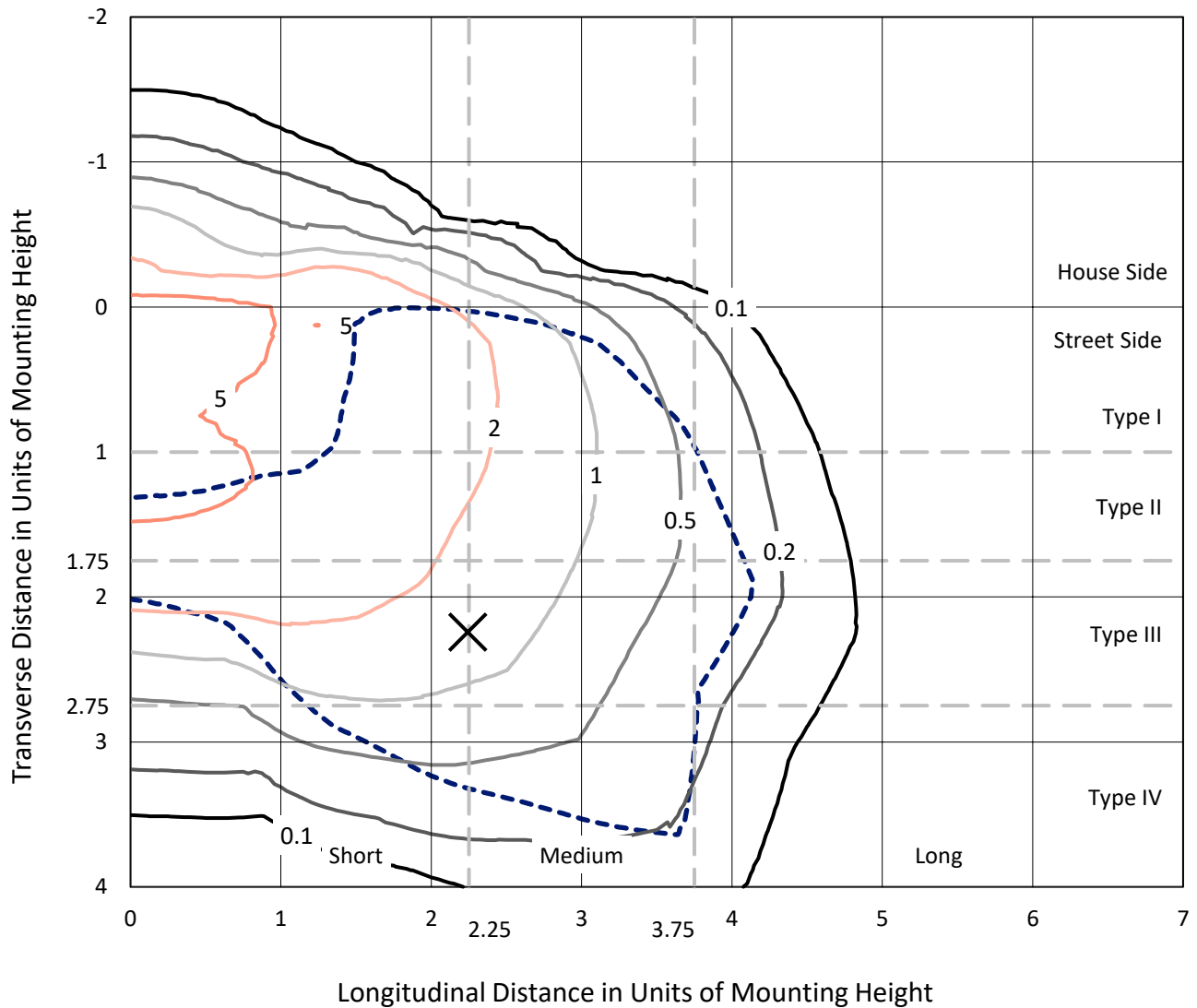
Lumens per Lamp: N/A  
Luminaire Lumens: 38535 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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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### Iso-Footcandle Lines of Horizontal Illumination

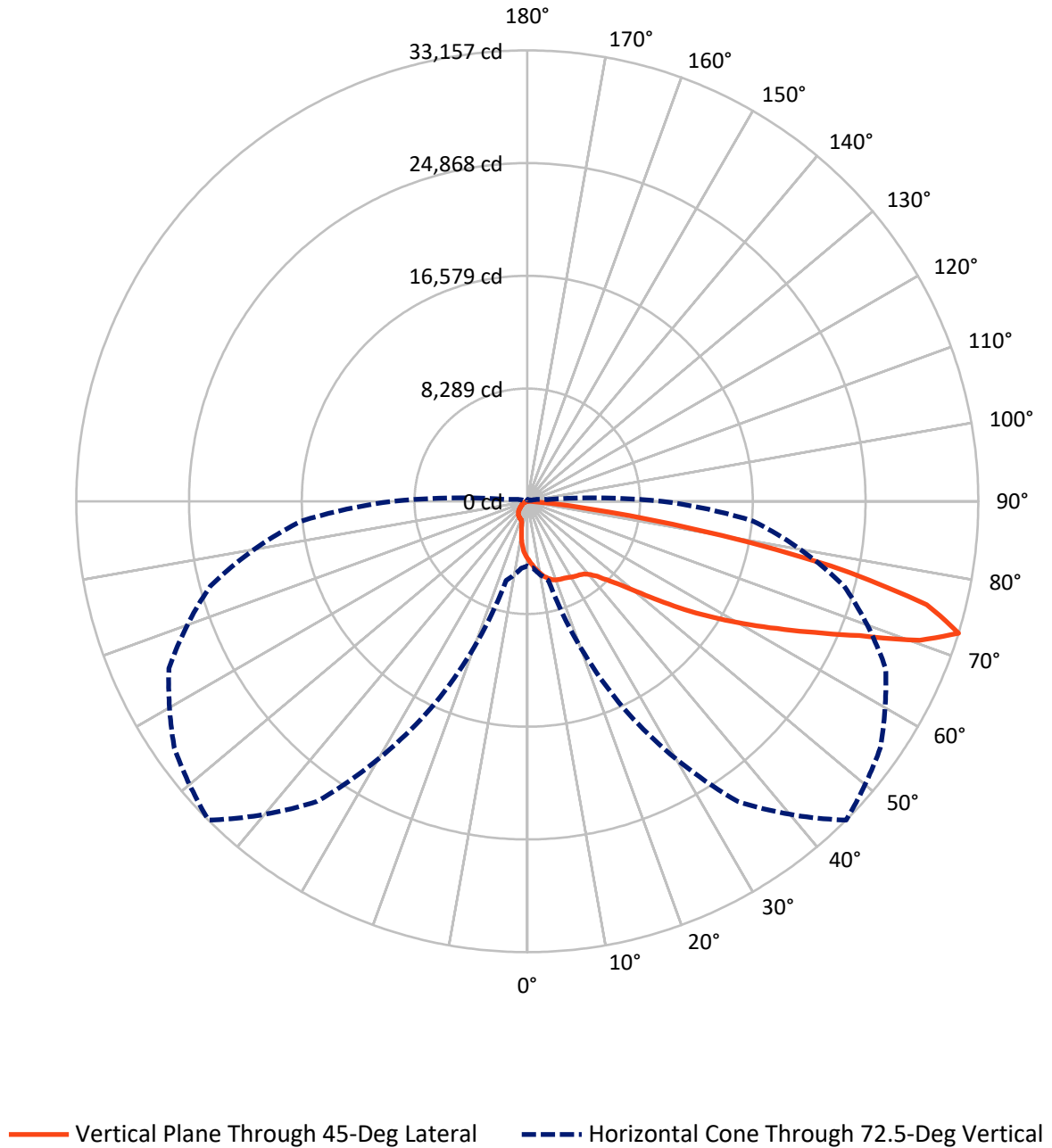
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4049.0	0.0	4049.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	34486.0	0.0	34486.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	38535.0	0.0	38535.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.8	1.0
10°-20°	1162.5	3.0
20°-30°	1909.0	5.0
30°-40°	2707.4	7.0
40°-50°	4475.0	11.6
50°-60°	8038.8	20.9
60°-70°	11162.4	29.0
70°-80°	8096.8	21.0
80°-90°	585.4	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°	38535.0	100.0
0°-180°	38535.0	100.0

**Coefficient of Utilization**



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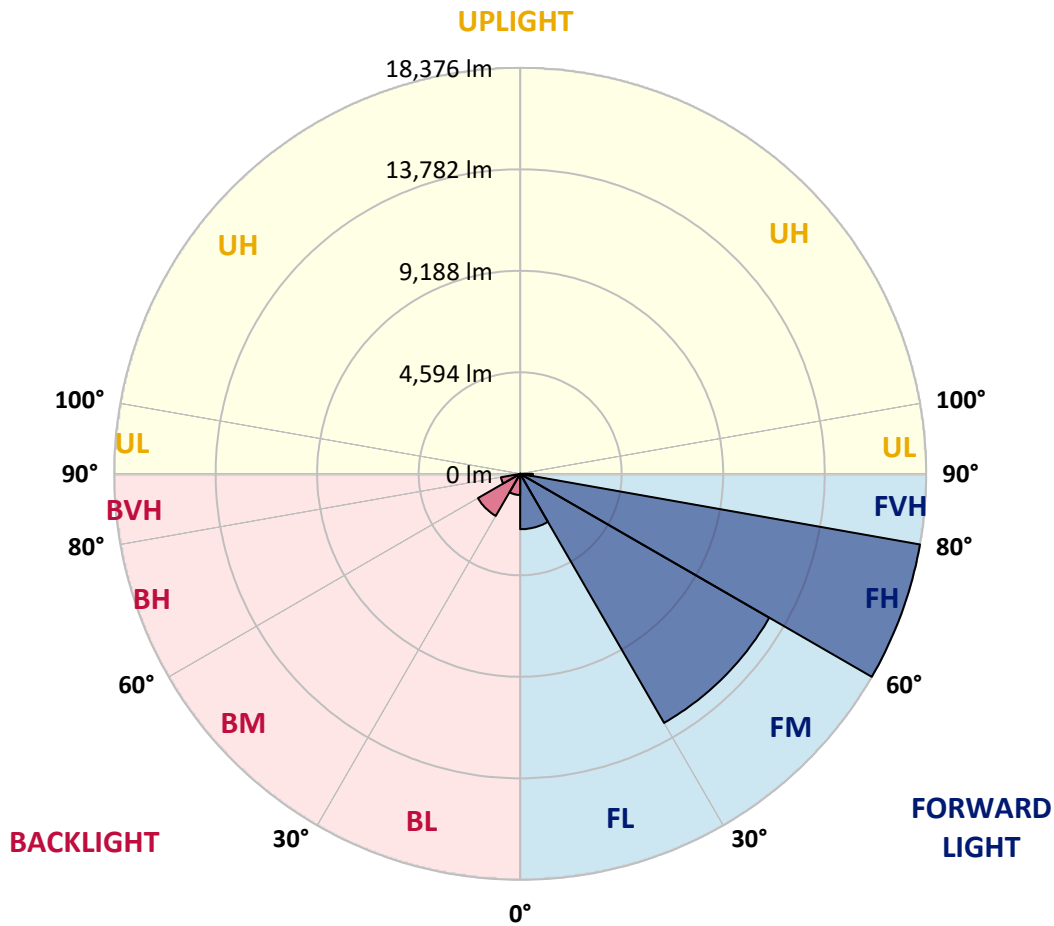
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2510.2	6.5			
FM (30°-60°)	13019.2	33.8			
FH (60°-80°)	18376.2	47.7			G5
FVH (80°-90°)	580.4	1.5			G4/750
BL (0°-30°)	959.0	2.5	B2/1000		
BM (30°-60°)	2202.1	5.7	B2/2500		
BH (60°-80°)	882.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6
2.5°	4610.9	4618.8	4613.5	4581.9	4529.3	4500.4	4484.6	4432.0	4397.8	4337.3	4274.2
5°	5034.3	5065.9	5047.5	4984.4	4884.4	4813.4	4792.4	4684.5	4587.2	4474.1	4342.6
7.5°	5484.1	5499.9	5465.7	5384.2	5250.0	5129.0	5110.6	4960.7	4805.5	4631.9	4453.1
10°	5873.4	5891.8	5839.2	5720.8	5568.3	5418.4	5392.1	5226.4	5042.2	4829.2	4600.4
12.5°	6199.6	6218.0	6149.6	6007.5	5839.2	5684.0	5657.7	5484.1	5281.6	5044.9	4760.8
15°	6446.8	6481.0	6388.9	6236.4	6054.9	5899.7	5886.6	5715.6	5518.3	5255.3	4952.8
17.5°	6591.5	6625.7	6538.9	6354.7	6199.6	6068.0	6052.3	5910.2	5726.1	5473.6	5139.6
20°	6615.1	6646.7	6554.6	6394.2	6265.3	6160.1	6152.2	6049.6	5915.5	5673.5	5342.1
22.5°	6544.1	6583.6	6499.4	6370.5	6281.1	6225.9	6215.3	6157.5	6081.2	5876.0	5531.5
25°	6470.5	6502.0	6438.9	6325.8	6278.5	6273.2	6281.1	6270.6	6254.8	6081.2	5752.4
27.5°	6465.2	6499.4	6428.4	6320.6	6294.2	6349.5	6357.4	6407.3	6420.5	6267.9	5965.5
30°	6509.9	6533.6	6465.2	6352.1	6339.0	6465.2	6467.8	6557.3	6578.3	6425.8	6175.9
32.5°	6607.3	6633.6	6565.2	6399.5	6381.0	6557.3	6565.2	6683.5	6717.7	6594.1	6396.8
35°	6836.1	6867.6	6788.7	6531.0	6465.2	6644.1	6667.7	6807.2	6875.5	6773.0	6625.7
37.5°	7406.9	7314.8	7207.0	6796.6	6657.2	6780.8	6820.3	6983.4	7104.4	6986.0	6899.2
40°	8824.6	8535.2	8198.6	7249.0	6993.9	7072.8	7104.4	7267.4	7433.2	7317.4	7275.3
42.5°	10952.5	10610.5	10068.7	8290.6	7501.5	7541.0	7564.7	7706.7	7940.8	7848.7	7859.3
45°	12848.9	12725.3	12172.9	10068.7	8451.1	8256.4	8285.4	8359.0	8703.6	8669.4	8737.8
47.5°	14306.1	14235.0	13808.9	12109.8	10055.5	9132.3	9213.9	9248.0	9745.2	9866.2	10050.3
50°	15426.6	15400.3	15018.9	13924.7	12151.9	10423.8	10452.7	10379.1	11123.4	11423.3	11773.1
52.5°	16483.9	16573.4	16291.9	15610.7	14390.2	12115.0	12109.8	11762.6	12767.4	13219.8	13816.8
55°	17438.7	17470.3	17499.2	17330.9	16641.7	14040.4	13990.4	13422.3	14674.3	15142.5	15789.5
57.5°	18335.6	18348.8	18606.6	18951.1	18985.3	16107.8	16015.7	15334.5	16757.5	17091.5	17488.7
60°	18938.0	18998.5	19542.9	20500.4	20918.6	18241.0	18191.0	17496.6	18877.5	19032.7	18959.0
62.5°	18070.0	18438.2	19811.2	21710.3	22744.0	20605.6	20581.9	19929.6	21108.0	20981.7	20350.4
65°	14627.0	15250.3	17664.9	22528.3	24535.2	23246.4	23280.6	22586.2	23398.9	22988.6	21481.5
67.5°	10231.8	10889.3	13745.8	22594.1	26536.8	26347.5	26544.7	25455.8	25831.9	24911.3	21749.7
70°	7075.4	7414.7	9274.3	21179.0	28096.6	30619.0	30613.8	28980.4	28251.8	25787.2	20382.0
72.5°	4758.2	4934.4	6023.3	16802.2	26949.8	33157.2	33004.7	31673.8	29067.2	24117.0	16652.3
75°	2006.9	2135.8	2788.1	9442.7	21321.0	30335.0	29922.0	27991.4	25826.7	18990.6	10389.6
77.5°	636.5	691.8	1099.5	3379.9	11744.2	22801.9	22365.2	17480.8	17309.8	9526.9	3798.1
80°	302.5	352.5	618.1	1357.2	4621.4	12401.7	12341.2	7930.3	7446.3	2572.4	762.8
82.5°	131.5	155.2	341.9	726.0	2067.4	4424.1	4513.6	2698.7	2233.1	975.8	234.1
85°	42.1	55.2	157.8	334.0	873.3	1099.5	1086.3	641.8	899.6	531.3	81.5
87.5°	0.0	0.0	52.6	76.3	89.4	63.1	71.0	55.2	249.9	147.3	28.9
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°	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6	4221.6
2.5°	4242.6	4200.5	4126.9	4058.5	3998.0	3937.5	3900.7	3848.1	3842.8	3842.8	3856.0
5°	4271.6	4203.2	4071.7	3932.3	3771.8	3619.3	3466.7	3319.4	3272.1	3237.9	3253.7
7.5°	4355.7	4247.9	4040.1	3774.4	3469.3	3135.3	2901.2	2648.7	2551.4	2498.8	2506.7
10°	4476.7	4329.4	4013.8	3548.2	3053.7	2598.7	2264.7	1991.1	1885.9	1841.2	1841.2
12.5°	4610.9	4429.4	3966.5	3266.8	2598.7	2054.2	1728.1	1601.8	1586.1	1586.1	1586.1
15°	4771.3	4550.4	3884.9	2935.4	2122.6	1625.5	1509.8	1515.0	1530.8	1541.3	1541.3
17.5°	4937.0	4679.3	3756.0	2564.5	1701.8	1462.4	1465.1	1473.0	1486.1	1496.6	1496.6
20°	5115.9	4808.1	3585.1	2170.0	1459.8	1415.1	1423.0	1430.9	1441.4	1446.7	1449.3
22.5°	5307.9	4929.1	3382.5	1783.3	1378.3	1375.6	1378.3	1386.2	1399.3	1399.3	1404.6
25°	5513.1	5063.3	3151.1	1501.9	1336.2	1336.2	1341.4	1346.7	1357.2	1357.2	1359.9
27.5°	5723.5	5186.9	2906.5	1354.6	1299.4	1296.7	1296.7	1304.6	1309.9	1312.5	1315.1
30°	5954.9	5331.6	2661.8	1323.0	1270.4	1257.3	1249.4	1254.6	1259.9	1262.5	1267.8
32.5°	6191.7	5471.0	2443.5	1336.2	1241.5	1217.8	1191.5	1186.3	1186.3	1196.8	1204.7
35°	6454.7	5623.5	2275.2	1380.9	1225.7	1160.0	1117.9	1094.2	1096.8	1112.6	1120.5
37.5°	6770.3	5807.6	2151.6	1420.3	1215.2	1094.2	1025.8	996.9	978.5	996.9	991.6
40°	7183.3	6078.6	2062.1	1451.9	1202.0	1017.9	925.9	878.5	844.3	854.8	849.6
42.5°	7790.9	6504.7	2027.9	1454.5	1173.1	928.5	823.3	760.1	710.2	712.8	702.3
45°	8643.1	7178.0	2204.2	1420.3	1110.0	831.2	715.4	631.3	599.7	591.8	581.3
47.5°	9810.9	8159.1	2611.9	1349.3	1017.9	736.5	610.2	539.2	515.5	502.4	494.5
50°	11375.9	9419.0	3064.3	1270.4	925.9	647.0	523.4	478.7	462.9	449.8	447.1
52.5°	13190.8	10697.3	3435.1	1191.5	833.8	568.1	468.2	441.9	428.7	418.2	415.6
55°	14855.8	11578.5	3414.1	1107.3	744.4	505.0	428.7	413.0	397.2	386.7	381.4
57.5°	15892.1	11702.1	2814.4	1015.3	641.8	455.0	391.9	381.4	363.0	349.8	347.2
60°	16368.2	10997.2	1972.7	894.3	539.2	407.7	352.5	347.2	323.5	305.1	299.9
62.5°	16455.0	9687.3	1315.1	744.4	449.8	363.0	313.0	305.1	273.5	242.0	226.2
65°	16102.5	7814.5	910.1	581.3	384.0	315.6	268.3	252.5	218.3	186.7	176.2
67.5°	14987.3	5486.8	633.9	418.2	326.2	249.9	213.1	207.8	181.5	155.2	147.3
70°	12943.6	3127.4	423.5	313.0	257.8	171.0	168.3	173.6	147.3	126.3	115.7
72.5°	9924.0	1430.9	263.0	228.8	176.2	115.7	134.1	136.8	113.1	94.7	84.2
75°	5841.8	612.9	165.7	147.3	89.4	76.3	97.3	100.0	76.3	60.5	52.6
77.5°	1988.5	231.5	105.2	86.8	44.7	42.1	63.1	63.1	42.1	23.7	18.4
80°	452.4	86.8	52.6	34.2	21.0	18.4	21.0	18.4	10.5	2.6	0.0
82.5°	128.9	34.2	21.0	13.2	7.9	7.9	2.6	0.0	0.0	0.0	0.0
85°	36.8	15.8	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	2.6	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)