

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: P941966

Luminaire Tested: **GALN-SB5D-730-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40314 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 364.9
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

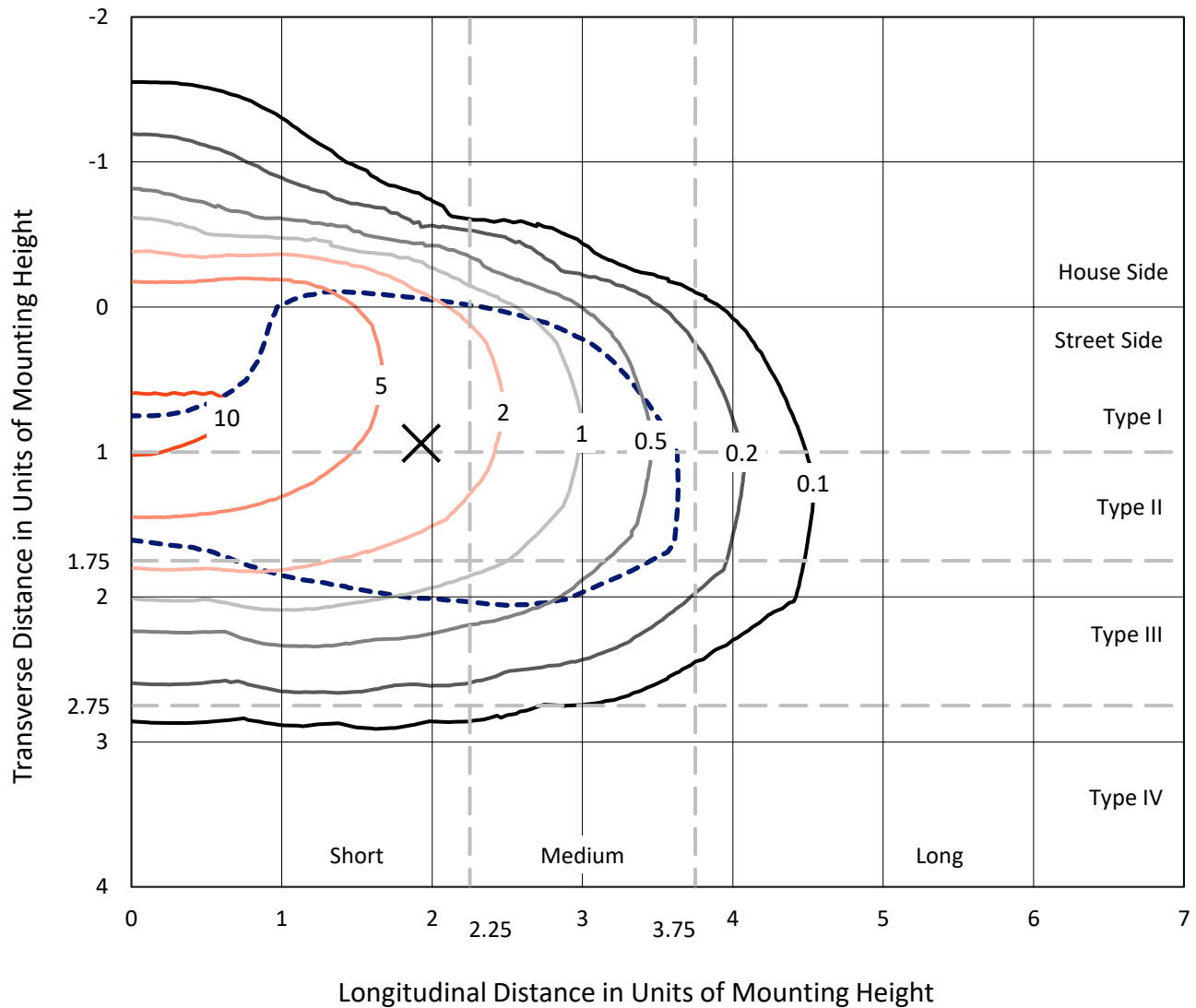


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Iso-Footcandle Lines of Horizontal Illumination

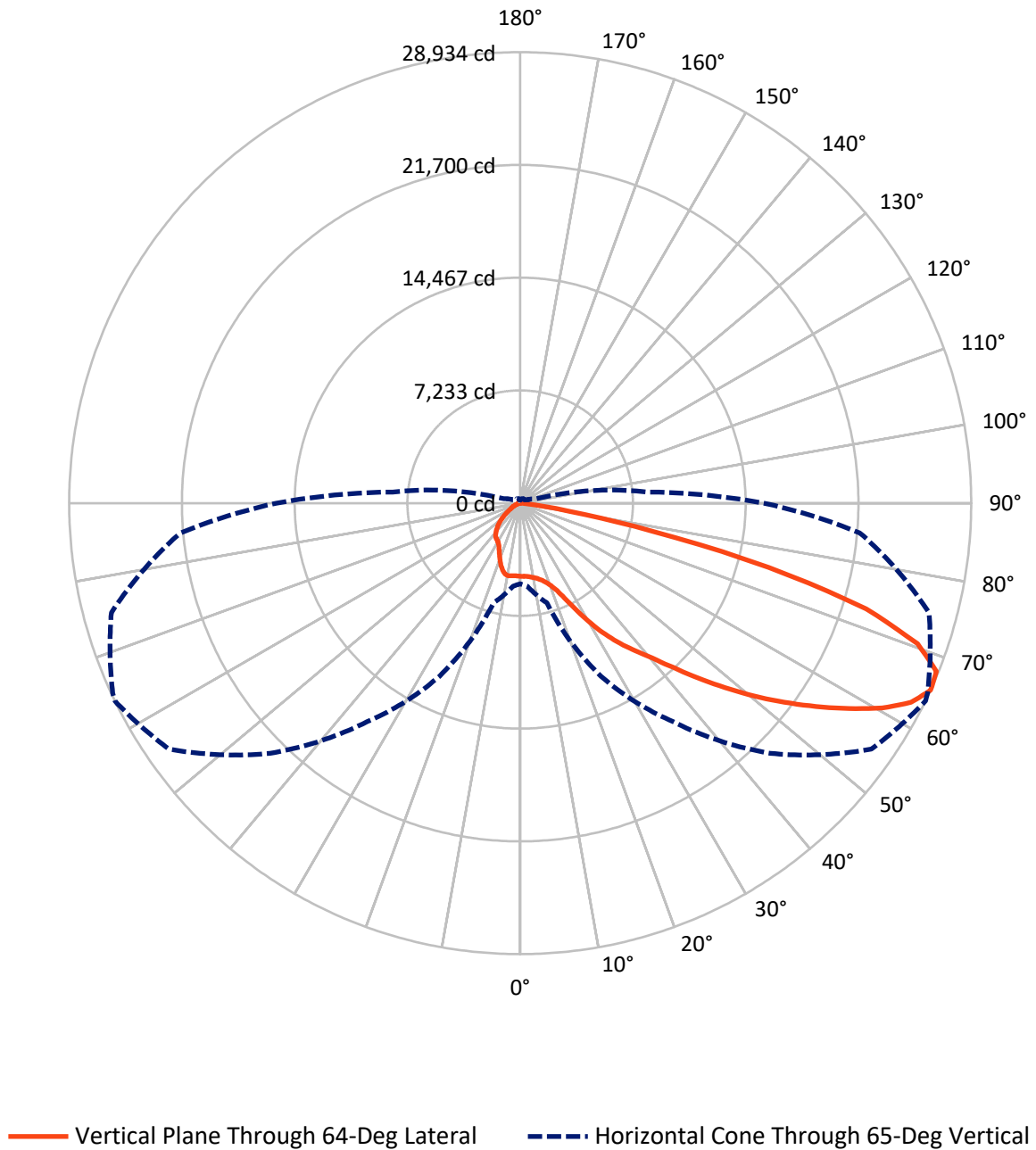
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5391.2	0.0	5391.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	34922.8	0.0	34922.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	40314.0	0.0	40314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.6	1.1
10°-20°	1173.3	2.9
20°-30°	2223.4	5.5
30°-40°	4499.1	11.2
40°-50°	7664.2	19.0
50°-60°	10422.7	25.9
60°-70°	9787.5	24.3
70°-80°	3921.3	9.7
80°-90°	190.0	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°	40314.0	100.0
0°-180°	40314.0	100.0

Coefficient of Utilization



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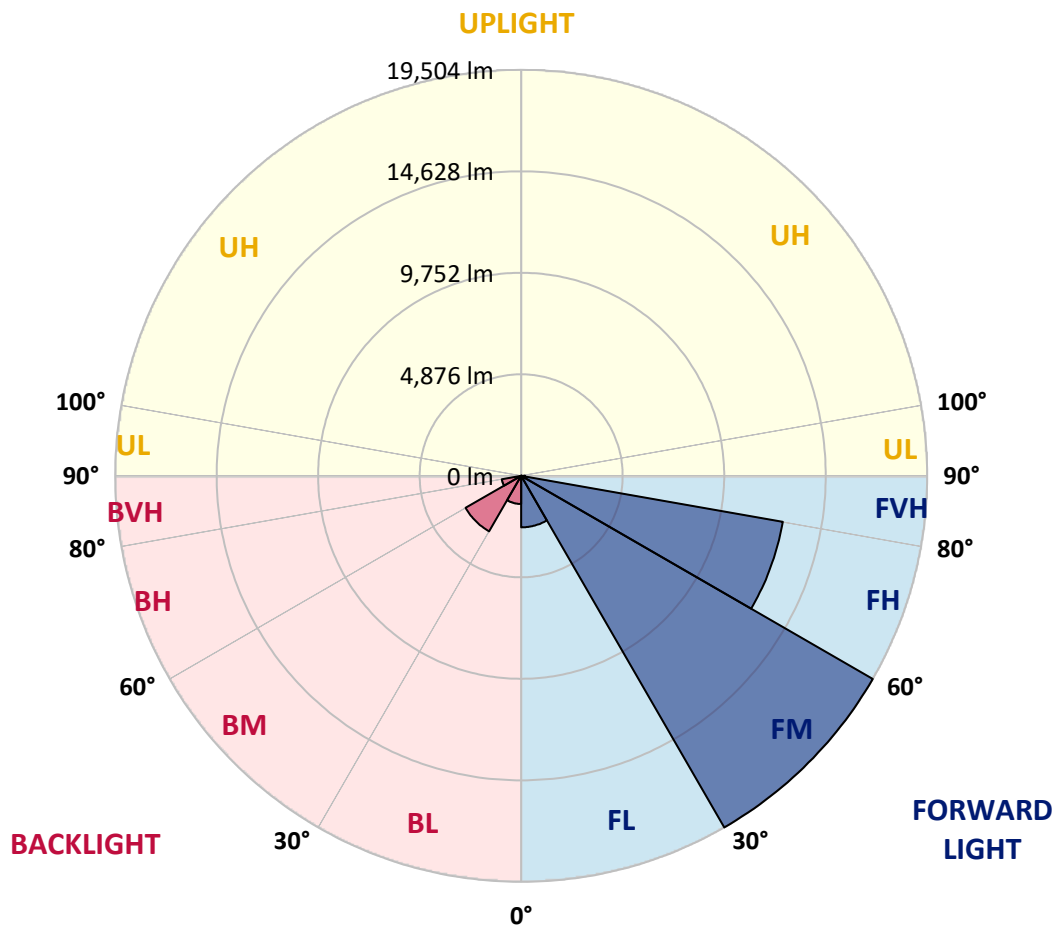
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2475.7	6.1			
FM	(30°-60°)	19503.9	48.4			
FH	(60°-80°)	12762.5	31.7			G5
FVH	(80°-90°)	180.7	0.4			G2/225
BL	(0°-30°)	1353.6	3.4	B3/2500		
BM	(30°-60°)	3082.1	7.6	B3/5000		
BH	(60°-80°)	946.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	9.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9
2.5°	4672.7	4705.2	4697.0	4688.9	4686.2	4691.6	4694.3	4691.6	4691.6	4691.6	4694.3
5°	4583.5	4610.6	4610.6	4629.5	4656.5	4688.9	4713.3	4718.7	4724.1	4732.2	4729.5
7.5°	4413.3	4434.9	4451.1	4513.3	4580.8	4667.3	4740.3	4778.1	4783.5	4813.3	4824.1
10°	4297.1	4324.1	4351.1	4416.0	4513.3	4643.0	4767.3	4859.2	4872.7	4943.0	4975.4
12.5°	4291.7	4318.7	4353.8	4424.1	4537.6	4675.4	4826.8	4959.2	4983.5	5086.2	5153.8
15°	4348.4	4380.8	4413.3	4499.8	4621.4	4788.9	4951.1	5115.9	5140.3	5286.2	5359.2
17.5°	4464.6	4507.9	4532.2	4618.7	4748.4	4934.9	5148.4	5337.6	5359.2	5529.4	5621.3
20°	4694.3	4745.7	4753.8	4824.1	4951.1	5151.1	5405.1	5640.2	5667.3	5861.8	5964.5
22.5°	5170.0	5243.0	5178.1	5213.2	5326.7	5526.7	5802.4	6099.7	6137.5	6359.1	6451.0
25°	6007.8	6110.5	5942.9	5883.5	5932.1	6140.2	6486.1	6861.8	6905.0	7083.4	7129.3
27.5°	7653.6	7521.2	7267.2	7018.5	6872.6	6991.5	7380.7	7845.5	7899.6	8072.5	8018.5
30°	9461.7	9345.4	9002.2	8450.9	8105.0	8086.1	8445.5	8964.4	9026.5	9191.4	9026.5
32.5°	11272.4	11161.6	10788.6	10110.3	9510.3	9213.0	9461.7	10037.3	10069.7	10175.1	9931.9
35°	13053.4	12939.8	12566.9	11872.3	11134.5	10458.9	10410.3	11058.9	11069.7	11180.5	10818.3
37.5°	14845.1	14750.6	14353.3	13672.2	12945.2	12012.9	11561.5	12026.4	12039.9	12148.0	11772.3
40°	16123.5	16164.0	15891.0	15364.0	14739.7	13720.9	12853.4	13056.1	12975.0	13156.0	12931.7
42.5°	17220.7	17301.8	17063.9	16799.1	16437.0	15539.7	14453.3	14418.1	14288.4	14385.7	14153.3
45°	18169.3	18236.9	18023.4	17961.2	17953.1	17323.4	16201.8	15991.0	15810.0	15791.0	15512.7
47.5°	18517.9	18647.6	18739.5	18947.6	19353.0	19088.2	18009.8	17682.8	17480.1	17331.5	16891.0
50°	18650.3	18788.2	19101.7	19707.0	20666.5	20780.0	19809.7	19442.2	19193.6	18923.3	18274.7
52.5°	18472.0	18717.9	19139.5	20158.4	21550.2	22136.6	21536.7	21215.1	20931.3	20490.8	19528.7
55°	17420.7	17666.6	18528.7	20153.0	21990.7	23087.9	23169.0	23025.8	22706.9	22012.3	20542.1
57.5°	15204.6	15569.4	16934.2	19466.5	21982.6	23906.8	24768.9	24871.6	24514.9	23520.4	21339.4
60°	12134.5	12629.0	14293.8	17945.0	21304.3	24350.0	26171.6	26685.1	26306.7	25006.8	21985.3
62.5°	8467.1	9040.1	10615.6	15561.3	19753.0	24031.1	27195.8	28144.4	27858.0	26336.4	22233.9
65°	5164.6	5348.4	6618.6	12245.3	17115.3	22696.1	27512.0	28933.6	28839.0	27149.9	21866.4
67.5°	3440.4	3594.4	3959.2	8396.8	13285.8	20028.7	26755.3	28795.7	28822.8	27017.5	20520.5
70°	2072.9	2205.3	2443.1	4883.5	8610.3	15853.2	24412.2	27039.1	27195.8	25247.3	17969.3
72.5°	854.0	943.2	1159.4	2213.4	4459.2	10061.6	19439.5	23215.0	23579.8	21228.6	13791.1
75°	483.8	529.7	681.0	1110.8	1935.0	4688.9	11775.0	16480.2	17018.0	14631.6	8296.9
77.5°	321.6	343.2	440.5	718.9	1089.1	1599.9	5032.2	8586.0	9613.0	7991.5	3591.7
80°	216.2	235.1	302.7	481.1	708.1	686.4	1602.6	3180.9	3913.3	2745.8	875.6
82.5°	145.9	148.6	216.2	316.2	448.6	332.4	472.9	989.1	1243.2	794.6	332.4
85°	83.8	81.1	159.5	183.8	200.0	137.8	143.2	297.3	389.2	335.1	189.2
87.5°	10.8	16.2	62.2	48.6	27.0	29.7	29.7	51.3	75.7	81.1	40.5
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°	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9	4688.9
2.5°	4694.3	4691.6	4683.5	4675.4	4656.5	4645.7	4651.1	4645.7	4643.0	4645.7	4656.5
5°	4729.5	4721.4	4699.7	4672.7	4634.9	4588.9	4559.2	4516.0	4475.4	4451.1	4456.5
7.5°	4824.1	4816.0	4786.2	4710.6	4588.9	4397.1	4221.4	4067.3	3951.1	3883.6	3886.3
10°	4975.4	4961.9	4916.0	4748.4	4429.5	4010.6	3662.0	3372.8	3183.6	3094.4	3086.3
12.5°	5153.8	5137.6	5056.5	4713.3	4126.8	3472.8	2991.7	2670.1	2494.5	2416.1	2408.0
15°	5364.6	5343.0	5183.5	4545.7	3686.3	2878.2	2437.7	2197.2	2083.7	2013.4	2016.1
17.5°	5626.7	5588.9	5278.1	4294.4	3207.9	2424.2	2097.2	1916.1	1816.1	1748.6	1743.1
20°	5967.2	5905.1	5353.8	3994.4	2767.4	2137.7	1867.5	1716.1	1640.5	1581.0	1570.2
22.5°	6442.9	6353.7	5445.7	3670.1	2456.6	1940.4	1697.2	1586.4	1524.2	1456.7	1445.9
25°	7032.1	6926.7	5559.2	3370.1	2243.1	1770.2	1572.9	1481.0	1408.0	1329.7	1321.6
27.5°	7856.3	7667.2	5694.3	3124.2	2059.3	1624.2	1459.4	1356.7	1272.9	1208.0	1194.5
30°	8775.2	8464.4	5813.2	2975.5	1891.8	1489.1	1310.7	1208.0	1129.7	1083.7	1075.6
32.5°	9645.4	9223.8	5891.6	2910.7	1740.4	1335.1	1148.6	1037.8	978.3	964.8	972.9
35°	10467.0	9910.3	5883.5	2848.5	1605.3	1181.0	989.1	875.6	829.7	837.8	837.8
37.5°	11412.9	10642.7	5826.7	2751.2	1494.5	1040.5	851.3	751.3	710.8	713.5	724.3
40°	12512.8	11488.6	5791.6	2567.4	1372.9	910.8	737.8	656.7	627.0	616.2	613.5
42.5°	13685.7	12307.4	5797.0	2359.3	1221.6	794.6	659.4	591.9	564.8	556.7	554.0
45°	14864.1	13088.5	5805.1	2143.1	1062.1	705.4	602.7	545.9	529.7	518.9	518.9
47.5°	15972.1	13753.3	5653.7	1910.7	905.4	637.8	556.7	518.9	505.4	491.9	491.9
50°	17004.5	14196.5	5288.9	1640.5	781.0	583.8	521.6	494.6	481.1	467.5	467.5
52.5°	17807.1	14266.8	4686.2	1362.1	694.6	543.2	500.0	475.7	459.4	445.9	443.2
55°	18163.9	13826.3	3829.5	1102.6	627.0	508.1	478.4	454.0	435.1	421.6	418.9
57.5°	18072.0	12899.3	2986.3	886.4	562.1	472.9	451.3	435.1	413.5	391.9	389.2
60°	17620.7	11658.8	2251.2	737.8	502.7	435.1	421.6	408.1	378.4	345.9	340.5
62.5°	16839.6	10099.5	1605.3	610.8	437.8	391.9	386.5	375.7	332.4	273.0	267.6
65°	15645.1	8205.0	1081.0	508.1	375.7	343.2	345.9	327.0	270.3	202.7	197.3
67.5°	13899.3	5999.7	691.9	416.2	313.5	286.5	289.2	278.4	229.7	173.0	164.9
70°	11675.0	3972.8	451.3	316.2	251.3	221.6	237.8	240.5	194.6	140.5	135.1
72.5°	8559.0	2345.8	316.2	235.1	183.8	154.0	194.6	200.0	156.7	105.4	100.0
75°	4878.1	1113.5	237.8	170.3	113.5	108.1	151.3	151.3	108.1	70.3	64.9
77.5°	2048.5	464.8	167.6	110.8	64.9	62.2	102.7	94.6	54.1	32.4	32.4
80°	591.9	208.1	89.2	54.1	27.0	24.3	40.5	29.7	13.5	5.4	5.4
82.5°	232.4	91.9	35.1	21.6	10.8	10.8	5.4	0.0	0.0	0.0	0.0
85°	137.8	37.8	16.2	8.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.1	8.1	5.4	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)