

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: LUMARK

Report Number: P971548

Luminaire Tested: **NAV-SB6D-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971548
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: LUMARK
Catalog Number: NAV-SB6D-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 43135.1 lumens
Efficiency: N/A
Efficacy: 98.0 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): 440.1
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

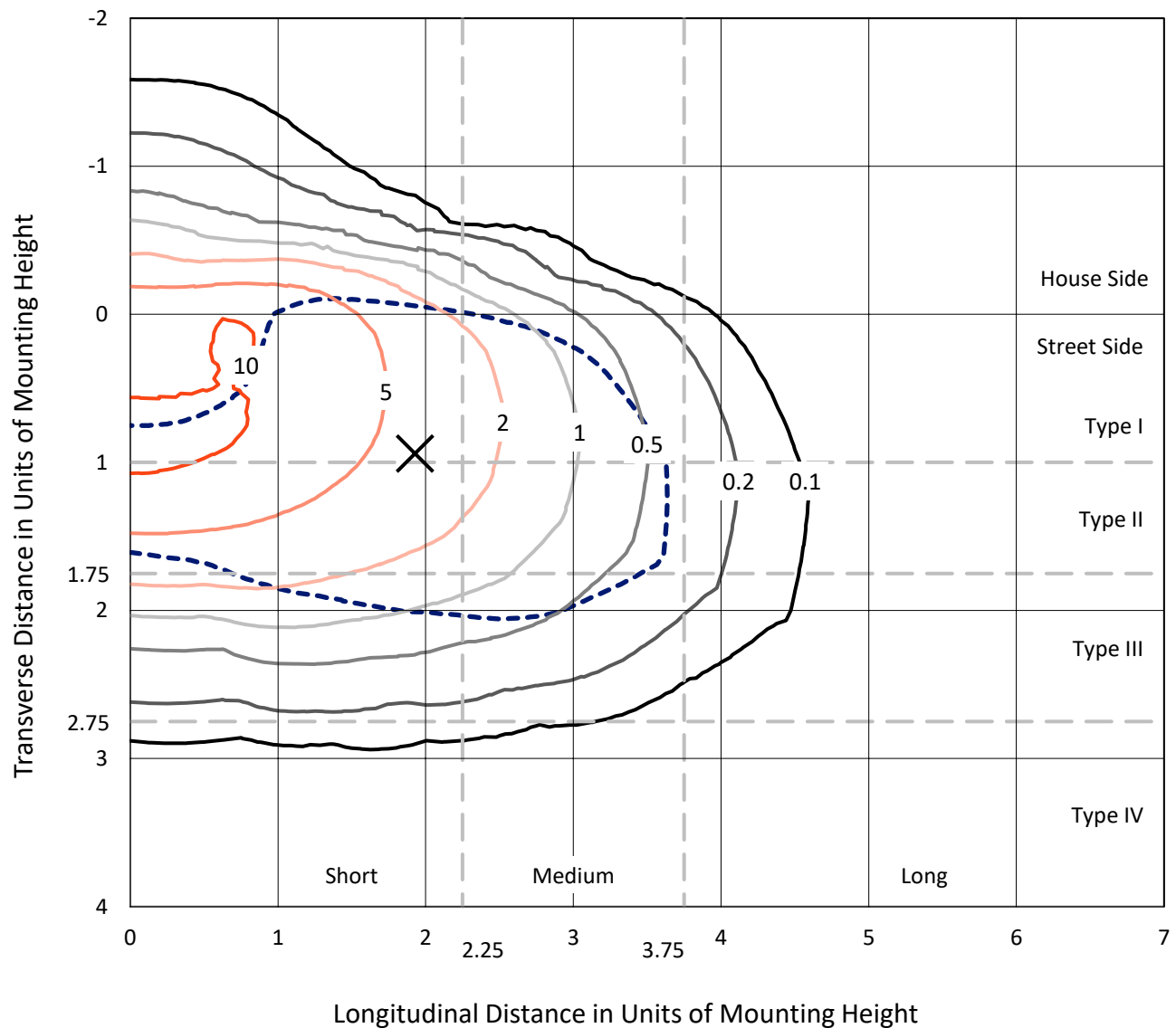


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



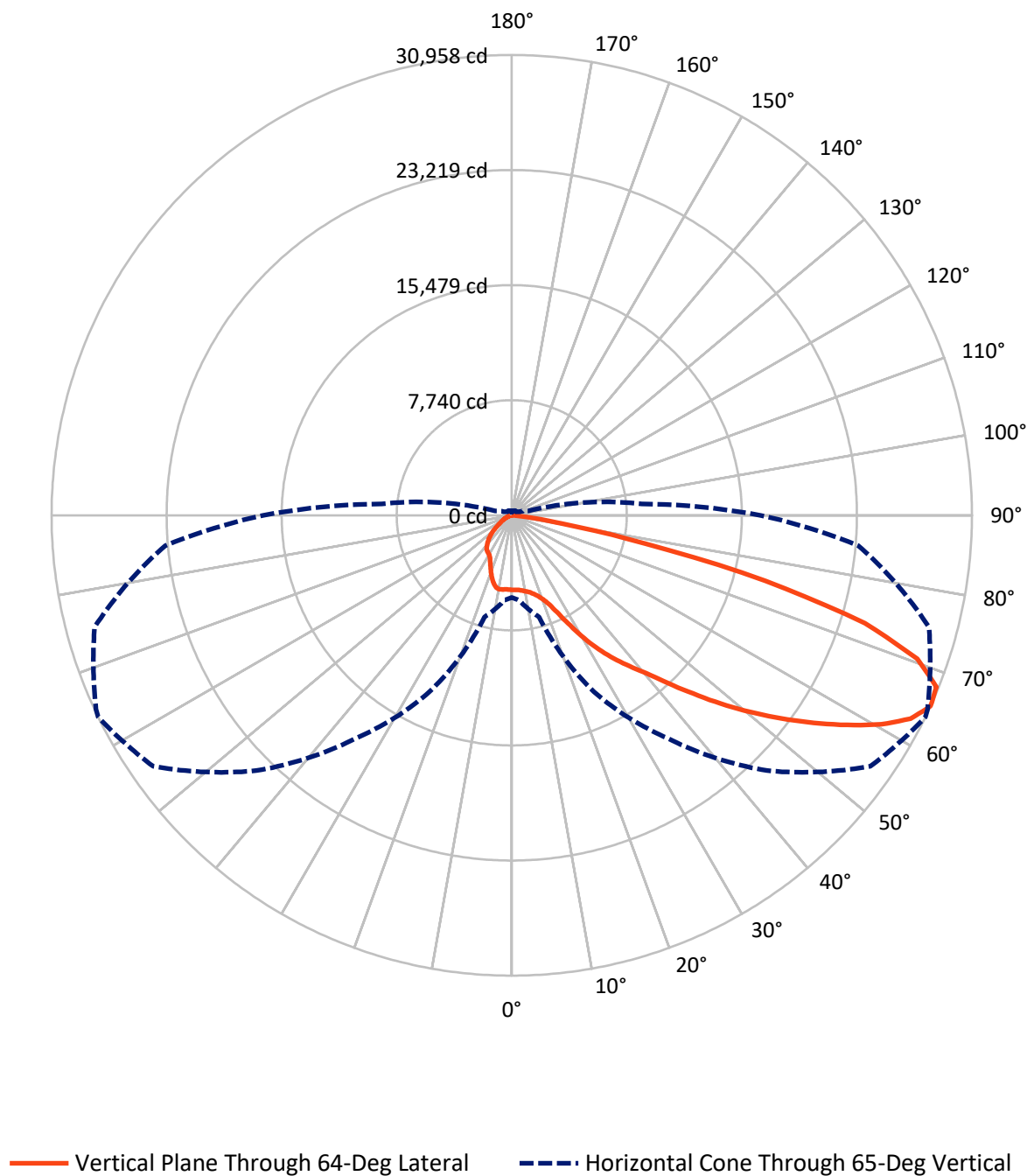
Based on 25 foot mounting height. Maximum calculated value = 12.6 fc

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	5768.5	0.0	5768.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	37366.6	0.0	37366.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	43135.1	0.0	43135.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.9	1.1
10°-20°	1255.4	2.9
20°-30°	2379.0	5.5
30°-40°	4813.9	11.2
40°-50°	8200.5	19.0
50°-60°	11152.1	25.9
60°-70°	10472.4	24.3
70°-80°	4195.7	9.7
80°-90°	203.3	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°	43135.1	100.0
0°-180°	43135.1	100.0

Coefficient of Utilization



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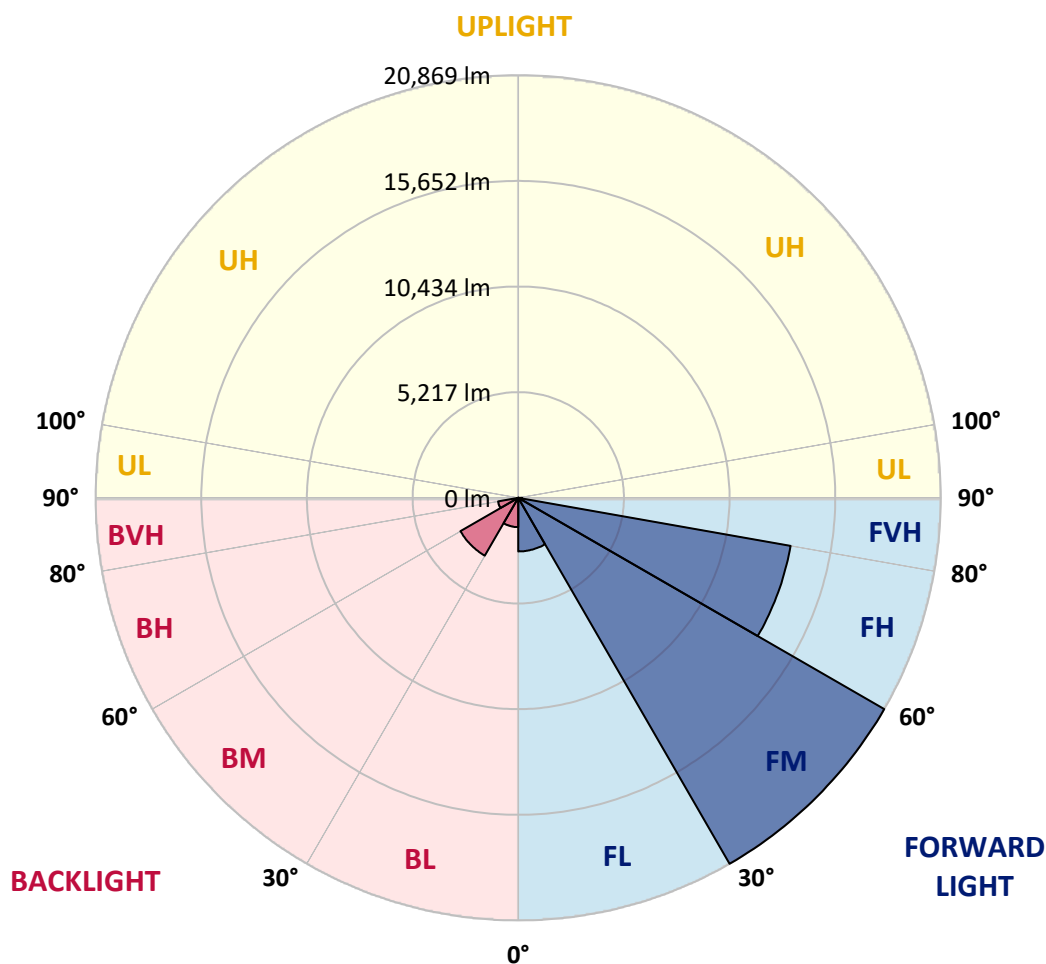
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2649.0	6.1			
FM	(30°-60°)	20868.7	48.4			
FH	(60°-80°)	13655.6	31.7			G5
FVH	(80°-90°)	193.3	0.4			G2/225
BL	(0°-30°)	1448.3	3.4	B3/2500		
BM	(30°-60°)	3297.8	7.6	B3/5000		
BH	(60°-80°)	1012.5	2.3	B3/2500		G3/2500
BVH	(80°-90°)	9.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1
2.5°	4999.7	5034.4	5025.8	5017.1	5014.2	5019.9	5022.8	5019.9	5019.9	5019.9	5022.8
5°	4904.3	4933.2	4933.2	4953.4	4982.3	5017.1	5043.1	5048.8	5054.7	5063.3	5060.4
7.5°	4722.1	4745.2	4762.6	4829.1	4901.3	4993.9	5072.0	5112.5	5118.2	5150.1	5161.6
10°	4597.7	4626.6	4655.5	4725.0	4829.1	4967.9	5100.9	5199.2	5213.7	5288.9	5323.5
12.5°	4592.0	4620.9	4658.5	4733.7	4855.1	5002.6	5164.6	5306.2	5332.3	5442.1	5514.4
15°	4652.7	4687.4	4722.1	4814.6	4944.8	5124.1	5297.5	5473.9	5499.9	5656.2	5734.2
17.5°	4777.0	4823.3	4849.4	4941.8	5080.7	5280.2	5508.7	5711.1	5734.2	5916.4	6014.7
20°	5022.8	5077.7	5086.5	5161.6	5297.5	5511.5	5783.4	6034.9	6063.8	6272.1	6382.0
22.5°	5531.8	5609.8	5540.4	5578.0	5699.5	5913.4	6208.4	6526.5	6567.0	6804.2	6902.5
25°	6428.2	6538.1	6358.8	6295.1	6347.2	6569.8	6940.1	7342.0	7388.2	7579.1	7628.3
27.5°	8189.2	8047.6	7775.8	7509.7	7353.6	7480.8	7897.2	8394.5	8452.4	8637.5	8579.6
30°	10123.7	9999.4	9632.1	9042.2	8672.1	8651.9	9036.5	9591.6	9658.2	9834.6	9658.2
32.5°	12061.2	11942.6	11543.6	10817.7	10175.8	9857.7	10123.7	10739.6	10774.4	10887.1	10626.9
35°	13966.8	13845.4	13446.3	12703.1	11913.7	11190.7	11138.8	11832.7	11844.3	11962.9	11575.4
37.5°	15884.0	15782.7	15357.7	14629.0	13851.1	12853.5	12370.6	12868.0	12882.4	12998.1	12596.1
40°	17251.8	17295.1	17003.0	16439.2	15771.2	14681.1	13752.8	13969.7	13882.9	14076.6	13836.7
42.5°	18425.7	18512.5	18258.0	17974.6	17587.2	16627.1	15464.7	15427.1	15288.3	15392.4	15143.7
45°	19440.8	19513.0	19284.6	19218.0	19209.4	18535.7	17335.6	17110.0	16916.3	16896.1	16598.2
47.5°	19813.8	19952.5	20050.8	20273.6	20707.3	20423.9	19270.1	18920.3	18703.4	18544.3	18073.0
50°	19955.4	20102.9	20438.4	21086.1	22112.6	22234.1	21196.0	20802.7	20536.7	20247.5	19553.5
52.5°	19764.6	20027.8	20478.9	21569.0	23058.2	23685.7	23043.7	22699.6	22396.0	21924.6	20895.2
55°	18639.7	18902.8	19825.3	21563.2	23529.6	24703.6	24790.3	24637.1	24295.9	23552.7	21979.6
57.5°	16268.6	16658.9	18119.2	20828.7	23520.9	25579.8	26502.2	26612.1	26230.4	25166.2	22832.7
60°	12983.6	13512.8	15294.0	19200.7	22795.1	26054.0	28003.0	28552.4	28147.5	26756.7	23523.7
62.5°	9059.7	9672.6	11358.5	16650.3	21135.3	25712.7	29098.9	30113.9	29807.4	28179.4	23789.8
65°	5526.0	5722.6	7081.7	13102.2	18313.0	24284.3	29437.3	30958.3	30857.1	29049.7	23396.5
67.5°	3681.1	3845.9	4236.3	8984.4	14215.5	21430.2	28627.6	30810.8	30839.7	28908.1	21956.5
70°	2217.9	2359.7	2614.1	5225.2	9212.9	16962.5	26120.5	28931.2	29098.9	27014.1	19226.7
72.5°	913.8	1009.2	1240.6	2368.3	4771.3	10765.7	20799.8	24839.5	25229.9	22714.1	14756.2
75°	517.6	566.7	728.7	1188.5	2070.4	5017.1	12599.0	17633.5	18208.9	15655.5	8877.4
77.5°	344.1	367.3	471.3	769.2	1165.3	1711.9	5384.3	9186.9	10285.7	8550.7	3843.0
80°	231.3	251.5	323.9	514.8	757.6	734.5	1714.7	3403.5	4187.1	2938.0	937.0
82.5°	156.1	159.1	231.3	338.4	480.0	355.7	506.0	1058.3	1330.1	850.1	355.7
85°	89.7	86.7	170.6	196.6	214.0	147.5	153.2	318.1	416.4	358.5	202.4
87.5°	11.6	17.3	66.5	52.1	28.9	31.8	31.8	54.9	81.0	86.7	43.4
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°	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1	5017.1
2.5°	5022.8	5019.9	5011.2	5002.6	4982.3	4970.8	4976.6	4970.8	4967.9	4970.8	4982.3
5°	5060.4	5051.7	5028.6	4999.7	4959.3	4910.1	4878.3	4832.0	4788.6	4762.6	4768.4
7.5°	5161.6	5153.0	5121.2	5040.2	4910.1	4704.8	4516.8	4351.9	4227.6	4155.3	4158.2
10°	5323.5	5309.1	5260.0	5080.7	4739.5	4291.3	3918.3	3608.8	3406.4	3311.0	3302.2
12.5°	5514.4	5497.1	5410.4	5043.1	4415.6	3715.8	3201.1	2857.0	2669.0	2585.2	2576.4
15°	5740.0	5716.8	5546.3	4863.8	3944.2	3079.6	2608.3	2350.9	2229.5	2154.3	2157.2
17.5°	6020.4	5980.0	5647.4	4594.9	3432.4	2593.9	2243.9	2050.2	1943.2	1870.9	1865.1
20°	6384.8	6318.3	5728.4	4273.9	2961.1	2287.3	1998.1	1836.2	1755.2	1691.7	1680.1
22.5°	6893.7	6798.3	5826.7	3926.9	2628.5	2076.2	1816.0	1697.4	1630.9	1558.6	1547.0
25°	7524.1	7411.4	5948.2	3606.0	2400.1	1894.1	1682.9	1584.6	1506.5	1422.7	1414.0
27.5°	8406.1	8203.7	6092.8	3342.7	2203.4	1737.9	1561.5	1451.6	1362.0	1292.6	1278.1
30°	9389.3	9056.7	6220.0	3183.8	2024.2	1593.4	1402.5	1292.6	1208.7	1159.6	1150.9
32.5°	10320.4	9869.3	6303.9	3114.4	1862.2	1428.4	1229.0	1110.4	1046.8	1032.3	1041.0
35°	11199.5	10603.7	6295.1	3047.8	1717.7	1263.6	1058.3	937.0	887.8	896.5	896.5
37.5°	12211.5	11387.4	6234.5	2943.7	1599.1	1113.3	910.9	803.9	760.6	763.4	775.0
40°	13388.4	12292.5	6196.8	2747.1	1468.9	974.5	789.5	702.6	670.9	659.3	656.4
42.5°	14643.5	13168.7	6202.7	2524.5	1307.1	850.1	705.6	633.2	604.3	595.7	592.8
45°	15904.2	14004.4	6211.3	2293.1	1136.4	754.7	644.8	584.1	566.7	555.2	555.2
47.5°	17089.8	14715.7	6049.3	2044.5	968.7	682.4	595.7	555.2	540.8	526.2	526.2
50°	18194.5	15190.0	5659.0	1755.2	835.7	624.6	558.1	529.2	514.8	500.3	500.3
52.5°	19053.2	15265.1	5014.2	1457.4	743.1	581.3	534.9	508.9	491.6	477.1	474.3
55°	19434.9	14793.8	4097.5	1179.8	670.9	543.7	511.8	485.8	465.6	451.1	448.2
57.5°	19336.6	13801.9	3195.3	948.4	601.5	506.0	482.9	465.6	442.4	419.3	416.4
60°	18853.7	12474.7	2408.8	789.5	537.8	465.6	451.1	436.6	404.9	370.1	364.4
62.5°	18018.1	10806.2	1717.7	653.5	468.4	419.3	413.5	401.9	355.7	292.0	286.3
65°	16739.9	8779.1	1156.7	543.7	401.9	367.3	370.1	349.9	289.2	216.9	211.0
67.5°	14871.9	6419.5	740.3	445.4	335.5	306.5	309.4	297.9	245.8	185.1	176.4
70°	12492.1	4250.8	482.9	338.4	269.0	237.1	254.5	257.4	208.2	150.4	144.6
72.5°	9158.0	2510.0	338.4	251.5	196.6	164.8	208.2	214.0	167.7	112.7	107.0
75°	5219.5	1191.4	254.5	182.1	121.5	115.6	162.0	162.0	115.6	75.1	69.4
77.5°	2191.9	497.3	179.3	118.6	69.4	66.5	109.9	101.2	57.8	34.7	34.7
80°	633.2	222.6	95.4	57.8	28.9	26.0	43.4	31.8	14.5	5.7	5.7
82.5°	248.7	98.3	37.6	23.2	11.6	11.6	5.7	0.0	0.0	0.0	0.0
85°	147.5	40.5	17.3	8.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.6	8.7	5.7	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)