

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: P970892

Luminaire Tested: **NAV-SB6C-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39412.3 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 300.9
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

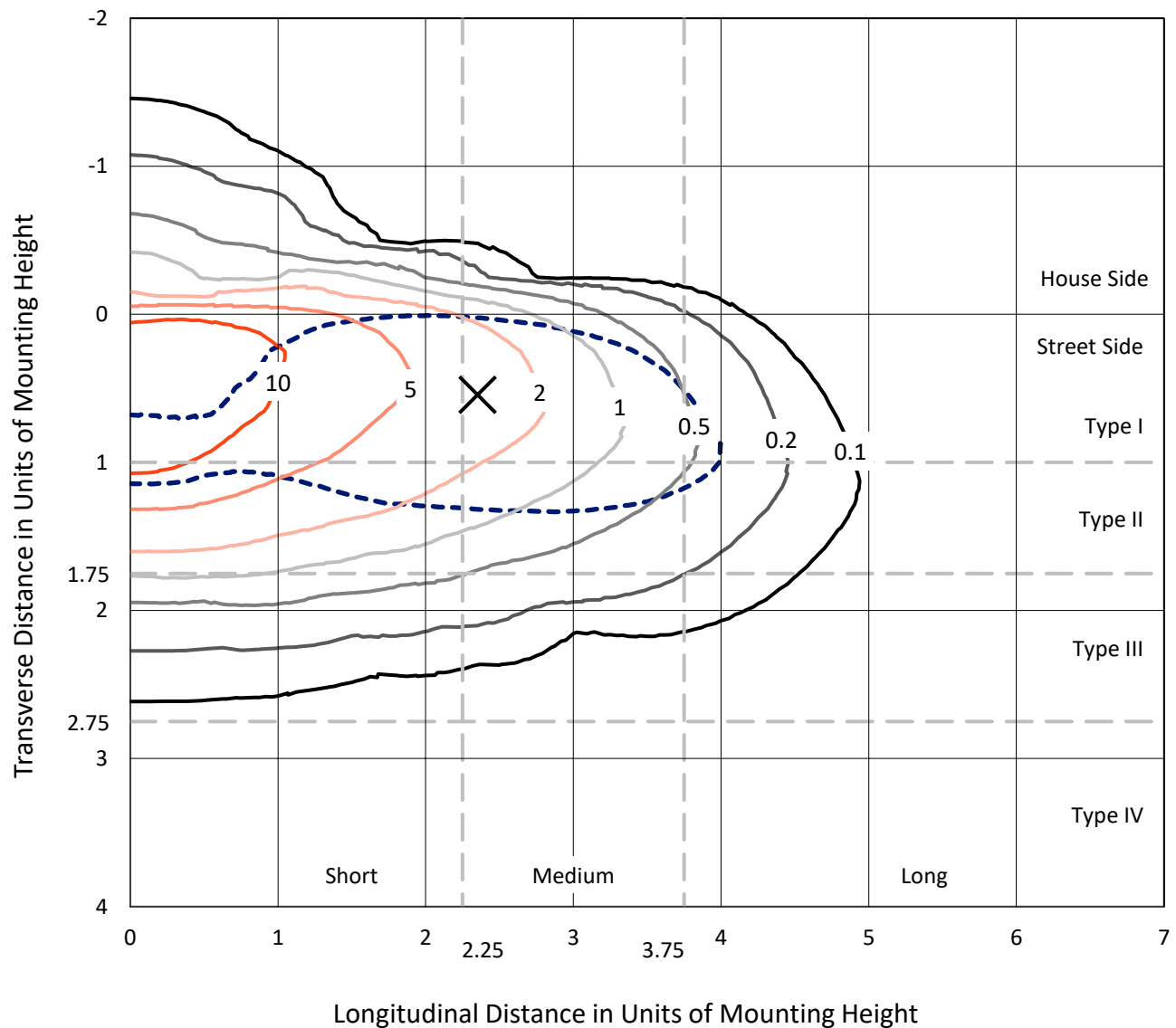


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Iso-Footcandle Lines of Horizontal Illumination

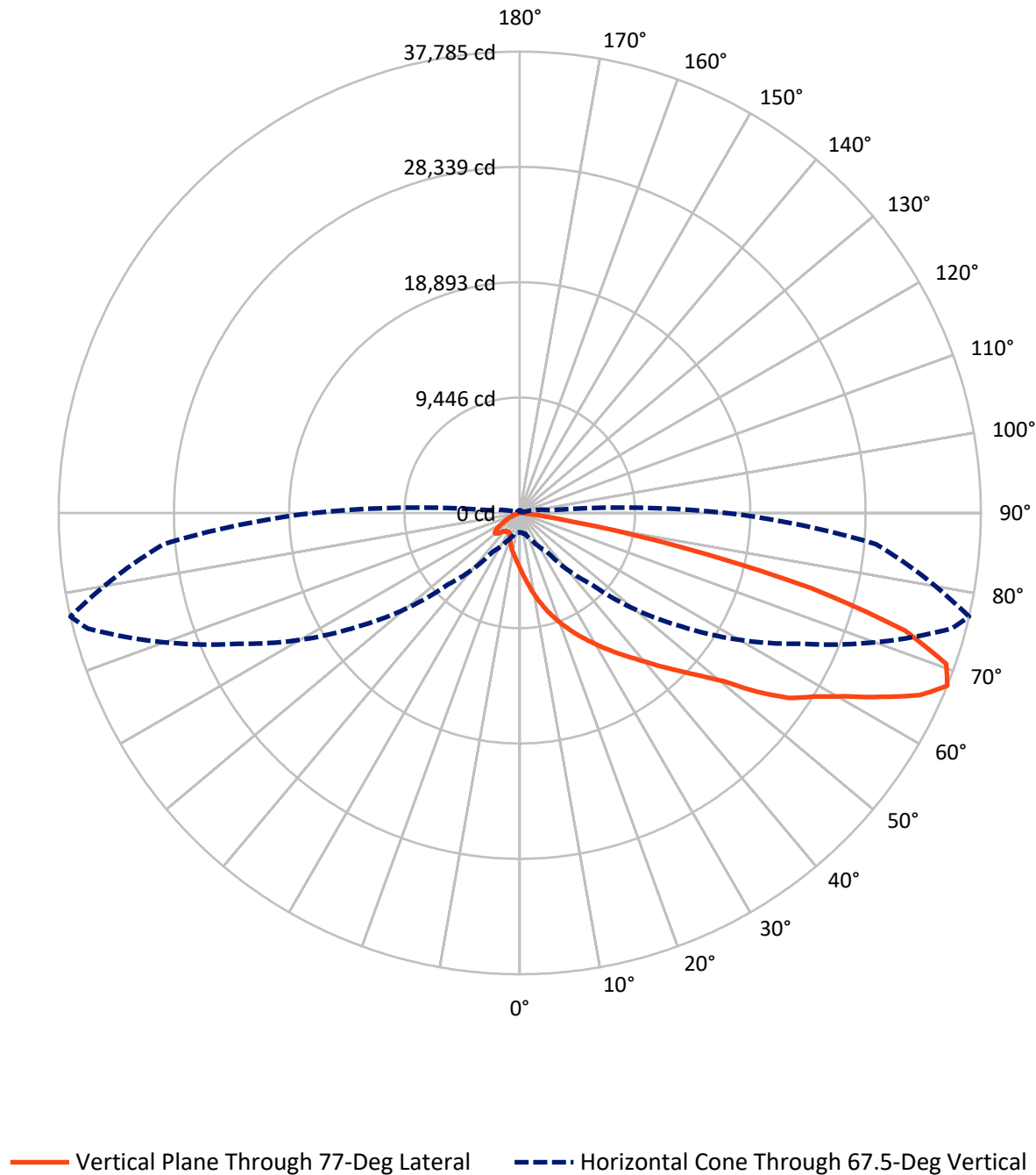
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.6	0.0	2899.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	36512.7	0.0	36512.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	39412.3	0.0	39412.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.9	1.2
10°-20°	1624.4	4.1
20°-30°	3134.7	8.0
30°-40°	5442.0	13.8
40°-50°	7901.5	20.0
50°-60°	9073.9	23.0
60°-70°	7877.8	20.0
70°-80°	3710.5	9.4
80°-90°	183.5	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°	39412.3	100.0
0°-180°	39412.3	100.0

Coefficient of Utilization



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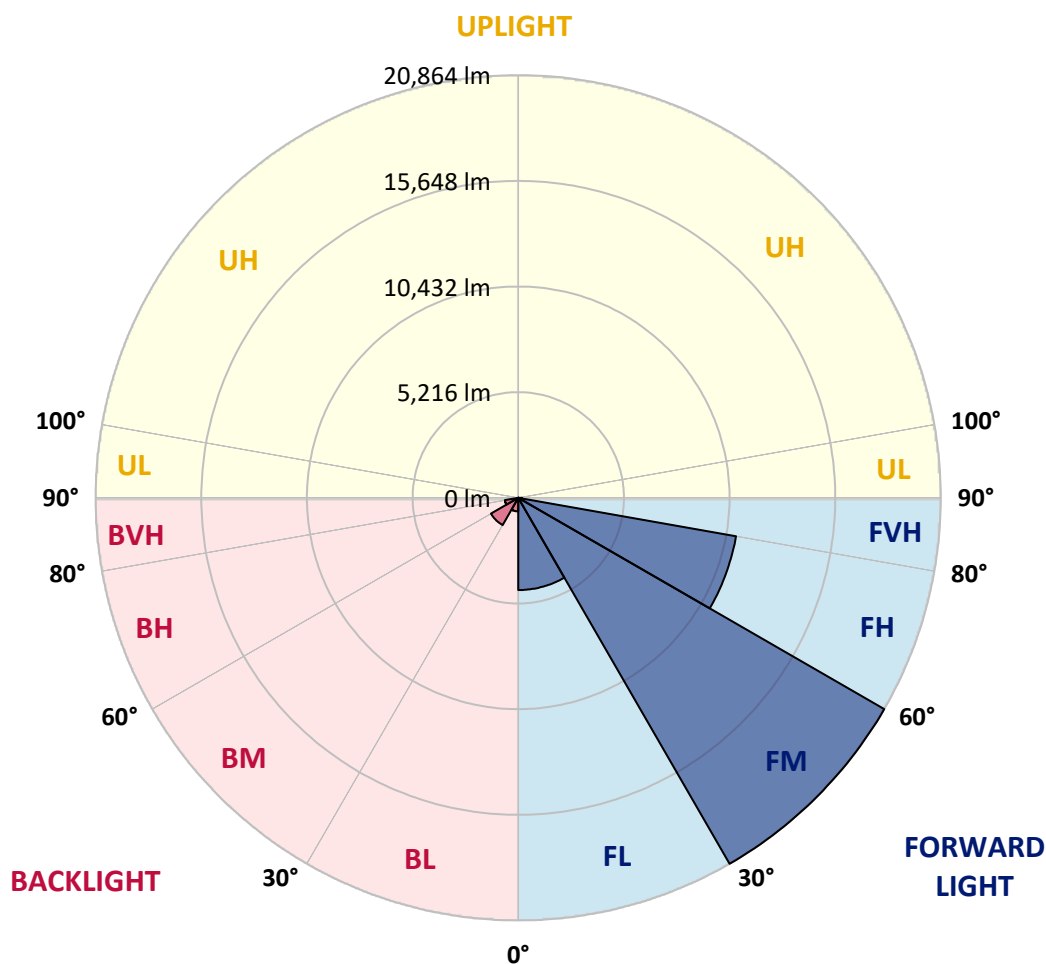
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4551.7	11.5			
FM	(30°-60°)	20863.8	52.9			
FH	(60°-80°)	10917.1	27.7			G4/12000
FVH	(80°-90°)	180.1	0.5			G2/225
BL	(0°-30°)	671.3	1.7	B2/1000		
BM	(30°-60°)	1553.6	3.9	B2/2500		
BH	(60°-80°)	671.3	1.7	B2/1000		G2/1000
BVH	(80°-90°)	3.4	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8
2.5°	6292.3	6331.4	6275.2	6167.4	6005.9	5900.7	5643.6	5401.4	5132.2	5046.5	4777.3
5°	7670.2	7704.4	7640.8	7523.3	7307.9	7102.3	6764.6	6258.0	5731.8	5563.0	5085.6
7.5°	8690.7	8710.2	8685.8	8578.1	8372.5	8140.0	7763.1	7163.5	6382.8	6196.8	5465.0
10°	9424.9	9488.5	9481.2	9439.6	9302.6	9114.1	8712.7	8030.0	7112.2	6872.3	5893.3
12.5°	9912.0	9982.9	10024.5	10117.6	10110.2	9990.3	9637.9	8915.9	7839.0	7557.5	6375.5
15°	10053.9	10129.8	10288.8	10504.2	10695.2	10756.3	10509.1	9784.6	8639.3	8279.5	6869.9
17.5°	9973.1	10090.6	10281.5	10621.7	11040.2	11316.7	11289.9	10624.1	9366.1	8955.0	7354.4
20°	10151.8	10264.3	10413.7	10700.0	11187.1	11688.8	11889.5	11426.9	10088.2	9657.4	7863.5
22.5°	11140.5	11120.9	11135.7	11182.1	11473.4	11970.3	12383.8	12156.2	10802.8	10362.2	8401.9
25°	12706.9	12618.8	12469.4	12217.4	12144.0	12383.8	12814.6	12802.4	11556.6	11084.2	8952.6
27.5°	14503.2	14488.6	14138.6	13531.6	13189.0	13096.0	13301.6	13431.3	12303.1	11798.9	9505.6
30°	16223.8	16263.0	15790.6	15115.2	14486.1	14121.4	13935.5	14028.5	13061.8	12569.8	10076.0
32.5°	17721.6	17763.2	17249.2	16458.7	15680.4	15239.9	14848.4	14618.3	13889.0	13353.0	10702.4
35°	18986.9	19028.5	18438.7	17564.9	16735.3	16336.3	15893.3	15264.4	14721.0	14221.8	11399.9
37.5°	20117.6	20105.4	19314.9	18433.8	17618.8	17303.1	17070.6	16059.8	15577.6	15095.6	12173.3
40°	20785.8	20837.1	20161.6	19190.0	18399.6	18169.5	18154.8	17046.2	16566.5	16099.0	13020.2
42.5°	20981.5	21072.1	20582.6	19784.8	19067.7	18818.1	19202.2	18113.2	17716.7	17261.5	13977.1
45°	20629.1	20717.2	20494.5	19941.4	19522.9	19361.3	20102.9	19219.4	18945.3	18495.0	15056.4
47.5°	19601.2	19711.4	19765.2	19647.7	19642.8	19806.8	20910.5	20384.4	20404.0	19943.8	16307.0
50°	17611.4	17797.5	18291.8	18707.9	19351.6	20159.2	21696.2	21647.2	22048.6	21652.1	17937.0
52.5°	13994.2	14258.6	15961.9	17100.0	18546.4	20093.1	22560.1	23673.7	24934.0	24354.0	20235.0
55°	11245.8	11245.8	12631.0	14760.2	16975.1	19657.4	22937.0	24990.3	26899.3	26762.2	21852.8
57.5°	9167.9	9278.1	10161.5	12043.6	14701.5	18619.7	23169.5	25817.6	28482.8	28382.5	23433.9
60°	5658.4	5895.8	7564.9	9422.5	12114.6	16772.0	23022.6	26654.6	30404.0	30484.7	25337.9
62.5°	3186.5	3274.6	4018.6	6779.2	9420.1	14287.9	21899.3	27122.0	32861.2	33203.8	27300.7
65°	2200.2	2244.2	2530.6	4219.3	6529.7	11375.4	19704.0	26830.8	35323.2	36015.8	28965.0
67.5°	1598.2	1620.2	1798.9	2577.2	3874.2	8247.8	16263.0	25362.4	36627.8	37785.4	29283.1
70°	1228.6	1243.3	1373.0	1693.6	2288.3	5090.6	11811.2	22442.6	35683.0	37065.8	27653.2
72.5°	998.6	1013.2	1113.6	1253.1	1517.4	3010.3	7158.6	18225.7	31512.7	33005.6	23541.5
75°	841.9	861.5	952.0	1042.6	1189.4	1933.5	3357.8	12692.2	23698.1	24677.1	16370.6
77.5°	467.5	430.7	773.4	864.0	1003.5	1223.7	1571.2	7469.5	13272.2	13543.9	7263.9
80°	291.2	301.0	614.3	695.1	770.9	616.7	719.6	2875.7	4601.1	4371.0	1407.2
82.5°	17.1	39.2	472.3	501.7	528.6	264.3	271.6	976.5	1108.6	1018.1	249.6
85°	0.0	0.0	215.4	173.7	183.6	75.8	78.3	227.7	149.2	161.5	49.0
87.5°	0.0	0.0	0.0	4.9	0.0	7.4	14.7	19.6	7.4	9.8	17.1
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°	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8	4544.8
2.5°	4606.0	4434.7	4087.2	3747.0	3470.4	3213.5	3029.9	2856.2	2768.0	2763.1	2758.2
5°	4745.5	4385.8	3690.7	3076.3	2582.0	2185.5	1928.5	1745.0	1652.0	1620.2	1615.3
7.5°	4941.3	4400.4	3343.1	2489.0	1906.5	1566.3	1419.5	1360.8	1341.2	1319.2	1314.3
10°	5188.4	4434.7	3032.4	2004.4	1502.6	1331.4	1272.6	1248.1	1233.5	1218.8	1213.9
12.5°	5465.0	4466.5	2723.9	1664.2	1321.6	1233.5	1191.9	1162.6	1143.0	1125.8	1120.9
15°	5734.3	4486.1	2403.3	1426.8	1228.6	1157.6	1113.6	1081.8	1054.8	1035.2	1032.8
17.5°	6001.0	4513.0	2102.3	1284.8	1152.7	1081.8	1037.7	998.6	976.5	954.5	952.0
20°	6297.2	4508.1	1818.5	1184.5	1076.9	1005.8	959.4	922.7	900.7	876.2	873.7
22.5°	6571.3	4483.7	1568.8	1098.9	998.6	930.0	878.6	841.9	819.9	800.3	797.9
25°	6887.0	4464.1	1360.8	1020.6	925.2	856.6	800.3	766.1	741.6	724.5	722.0
27.5°	7190.5	4434.7	1209.0	949.6	854.1	788.0	734.2	695.1	673.0	660.8	660.8
30°	7489.1	4427.4	1152.7	881.1	790.5	724.5	670.6	633.9	616.7	611.8	609.4
32.5°	7848.8	4447.0	1177.2	856.6	731.7	665.7	614.3	587.3	570.2	570.2	570.2
35°	8233.0	4442.0	1213.9	878.6	692.6	607.0	567.7	550.6	533.5	533.5	533.5
37.5°	8715.2	4449.3	1243.3	915.3	677.9	558.0	536.0	513.9	504.2	504.2	504.2
40°	9434.7	4691.6	1228.6	947.1	673.0	523.8	479.7	472.3	465.0	465.0	465.0
42.5°	10315.8	5217.9	1248.1	949.6	670.6	499.3	440.5	455.2	438.1	435.6	433.2
45°	11280.0	5793.0	1373.0	898.2	668.1	487.1	421.0	438.1	411.1	411.1	411.1
47.5°	12237.0	6363.2	1500.3	824.8	660.8	484.6	403.8	394.0	386.7	389.1	389.1
50°	13556.1	6828.2	1549.2	724.5	643.7	479.7	372.0	374.4	369.5	374.4	374.4
52.5°	14992.8	6926.1	1490.5	611.8	594.7	465.0	349.9	359.8	357.3	362.2	362.2
55°	15888.5	6820.9	1231.0	509.0	518.9	406.3	328.0	347.6	347.6	347.6	347.6
57.5°	16813.6	6373.0	873.7	413.6	430.7	332.8	308.4	335.3	332.8	330.4	330.4
60°	17479.3	5648.6	575.1	340.2	342.7	274.1	286.4	315.7	313.2	301.0	301.0
62.5°	17976.1	4848.2	369.5	288.7	261.9	247.2	261.9	286.4	276.5	249.6	244.8
65°	17919.9	3739.6	283.9	247.2	215.4	215.4	227.7	249.6	220.3	176.2	171.3
67.5°	16874.8	2530.6	234.9	208.1	181.1	178.7	188.5	208.1	188.5	149.2	144.4
70°	15007.4	1654.5	188.5	161.5	144.4	132.1	151.7	178.7	159.1	119.9	115.0
72.5°	12180.7	1008.3	142.0	117.5	105.3	85.7	119.9	146.9	127.3	88.1	83.2
75°	7880.6	513.9	97.9	75.8	56.3	51.4	88.1	110.1	88.1	53.8	46.5
77.5°	3015.2	215.4	53.8	34.2	29.4	24.5	49.0	66.1	36.7	12.2	9.8
80°	580.0	90.5	27.0	17.1	14.7	9.8	7.4	4.9	0.0	0.0	0.0
82.5°	100.3	29.4	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	0.0	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)