

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: P964727

Luminaire Tested: **NAV-SB3C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20506.2 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

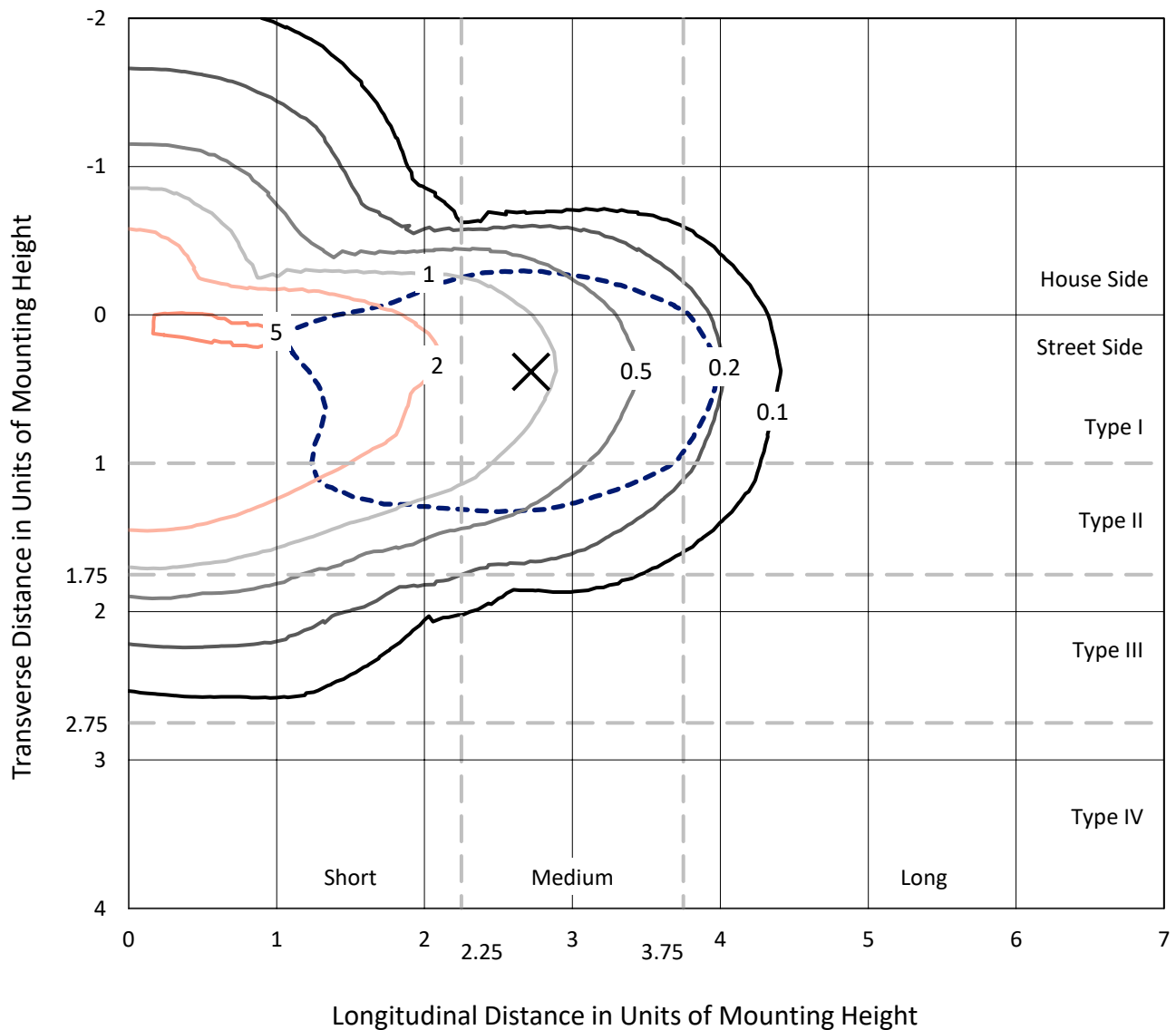
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P964727
CATALOG NUMBER: NAV-SB3C-830-U-T2

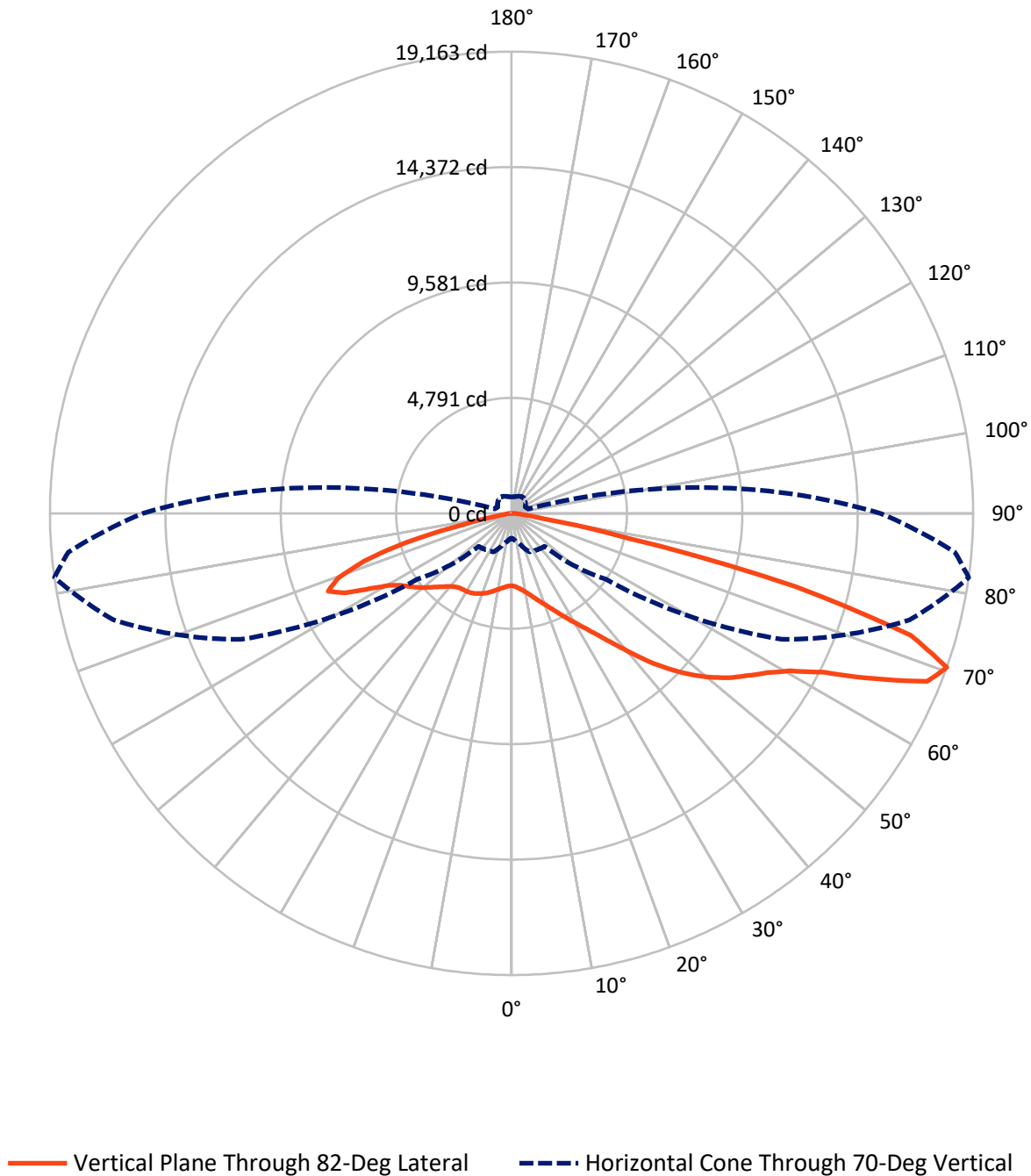
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



REPORT NUMBER: P964727
CATALOG NUMBER: NAV-SB3C-830-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P964727

CATALOG NUMBER: NAV-SB3C-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5055.3	0.0	5055.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15450.9	0.0	15450.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	20506.2	0.0	20506.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	1.4
10°-20°	815.6	4.0
20°-30°	1364.3	6.7
30°-40°	2131.5	10.4
40°-50°	3394.6	16.6
50°-60°	4724.0	23.0
60°-70°	4941.5	24.1
70°-80°	2582.7	12.6
80°-90°	268.2	1.3
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°	20506.2	100.0
0°-180°	20506.2	100.0

Coefficient of Utilization



REPORT NUMBER: P964727

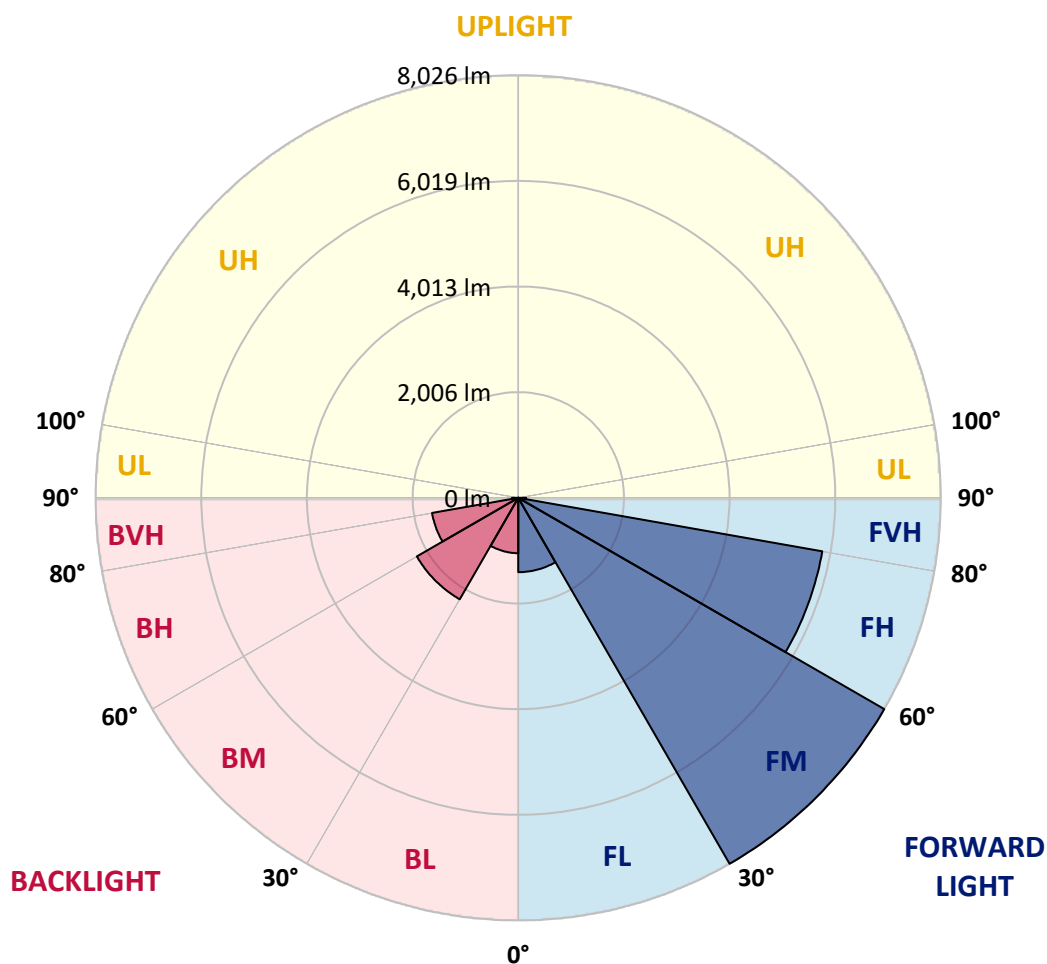
CATALOG NUMBER: NAV-SB3C-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1412.1	6.9			
FM	(30°-60°)	8025.9	39.1			
FH	(60°-80°)	5862.8	28.6			G3/7500
FVH	(80°-90°)	150.1	0.7			G2/225
BL	(0°-30°)	1051.7	5.1	B3/2500		
BM	(30°-60°)	2224.1	10.8	B2/2500		
BH	(60°-80°)	1661.4	8.1	B3/2500		G3/2500
BVH	(80°-90°)	118.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P964727

CATALOG NUMBER: NAV-SB3C-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4
2.5°	3078.3	3095.7	3090.3	3084.8	3084.8	3077.2	3076.1	3065.3	3056.5	3042.4	3039.1
5°	3117.4	3136.0	3133.7	3138.1	3152.3	3155.6	3158.8	3152.3	3134.9	3117.4	3109.8
7.5°	3082.6	3103.3	3109.8	3136.0	3179.4	3218.6	3248.0	3260.0	3243.7	3218.6	3206.7
10°	2965.1	2988.0	3010.8	3072.8	3150.1	3242.6	3320.9	3367.7	3364.5	3340.5	3319.9
12.5°	2726.8	2750.8	2799.7	2920.5	3062.0	3225.2	3371.0	3468.9	3502.6	3485.2	3449.3
15°	2536.4	2557.1	2594.1	2718.1	2902.0	3150.1	3389.5	3579.9	3665.8	3656.1	3612.5
17.5°	2530.9	2539.6	2562.5	2621.2	2762.7	3032.6	3369.9	3688.7	3853.0	3852.0	3797.5
20°	2626.7	2629.9	2643.1	2655.0	2735.5	2943.4	3319.9	3779.0	4063.0	4063.0	4004.3
22.5°	2759.5	2757.2	2770.4	2759.5	2798.7	2935.7	3288.3	3858.4	4297.0	4314.3	4240.4
25°	2958.6	2947.7	2944.4	2919.4	2927.0	3006.4	3323.0	3948.8	4574.5	4610.3	4517.9
27.5°	3224.0	3206.7	3194.7	3137.0	3117.4	3152.3	3429.8	4057.6	4883.4	4945.5	4828.0
30°	3570.1	3538.5	3521.2	3421.0	3350.3	3355.7	3590.8	4202.3	5206.6	5306.7	5157.7
32.5°	4042.3	3993.4	3946.6	3782.2	3652.8	3610.4	3798.6	4402.5	5557.0	5716.9	5525.5
35°	4571.2	4532.0	4481.9	4228.4	4029.3	3931.4	4079.3	4682.2	5967.2	6220.7	5971.5
37.5°	5080.4	5046.7	5070.6	4728.9	4472.2	4329.6	4447.2	5057.6	6473.2	6847.5	6530.9
40°	5607.1	5580.9	5584.2	5257.7	4958.5	4798.5	4893.2	5528.7	7053.1	7592.9	7203.3
42.5°	6179.4	6159.8	6094.5	5805.1	5468.9	5319.7	5406.9	6072.7	7675.5	8441.6	7941.1
45°	6820.2	6808.4	6747.4	6415.5	6030.3	5862.8	5980.3	6673.4	8301.3	9240.3	8682.1
47.5°	7374.2	7383.9	7376.3	7096.7	6697.4	6451.5	6591.8	7300.2	8883.4	9991.1	9392.6
50°	7640.8	7691.9	7766.9	7679.9	7431.9	7181.6	7208.7	7905.1	9438.3	10695.1	10073.8
52.5°	7501.5	7598.3	7802.8	7942.1	8037.8	7985.7	7912.8	8505.8	9960.6	11330.6	10717.9
55°	6982.4	7118.4	7457.9	7794.2	8282.7	8662.5	8758.2	9171.7	10469.9	11889.8	11327.3
57.5°	6036.8	6257.7	6562.5	7242.4	8065.1	8990.0	9744.1	10095.5	11009.5	12487.2	11964.9
60°	4415.6	4711.5	5090.2	6102.1	7303.4	8814.8	10583.0	11514.4	11776.6	13260.8	12795.2
62.5°	2825.8	3008.7	3356.9	4310.0	5690.8	7917.1	10839.8	13288.0	13076.9	14529.6	14039.9
65°	1934.7	2052.2	2371.0	2906.4	3678.9	5893.2	10152.1	14617.7	15142.2	16540.4	16168.2
67.5°	1405.9	1495.1	1767.1	2236.0	2397.1	3487.4	7877.9	14556.7	17149.8	18612.2	18033.3
70°	1025.0	1088.1	1316.6	1767.1	1844.4	1940.1	4772.5	12374.0	17106.2	19162.8	18469.7
72.5°	759.5	803.0	956.4	1371.0	1492.9	1310.1	2362.3	8993.2	14699.3	17332.5	16776.6
75°	549.5	582.1	695.3	1049.0	1194.7	997.8	1178.4	5255.6	10253.3	12192.3	12290.3
77.5°	420.0	445.1	519.1	768.2	956.4	748.7	731.2	2417.8	4861.7	4885.7	5159.8
80°	337.3	353.6	393.9	540.8	733.4	560.4	476.6	976.0	1536.4	1300.3	1364.5
82.5°	248.0	275.3	332.9	379.8	524.5	386.3	290.5	492.9	584.4	502.7	507.1
85°	141.4	160.0	201.3	272.0	335.2	236.2	166.5	218.7	272.0	223.0	199.2
87.5°	50.0	65.3	70.7	106.6	145.9	97.9	64.2	63.1	89.2	66.4	55.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P964727

CATALOG NUMBER: NAV-SB3C-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4	3006.4
2.5°	3028.3	3022.8	3001.0	2971.7	2941.1	2911.8	2902.0	2881.3	2867.1	2859.5	2868.3
5°	3089.1	3071.7	3020.6	2955.3	2886.8	2812.8	2760.5	2712.7	2677.8	2645.2	2658.2
7.5°	3176.2	3145.7	3057.6	2943.4	2821.5	2698.5	2607.1	2537.5	2490.6	2460.2	2466.8
10°	3277.4	3230.6	3095.7	2924.8	2736.6	2560.3	2452.6	2392.8	2363.3	2347.0	2351.5
12.5°	3393.9	3327.5	3134.9	2882.4	2607.1	2405.8	2331.9	2314.4	2315.5	2316.6	2318.8
15°	3537.5	3444.9	3166.4	2789.9	2438.5	2287.2	2274.2	2302.5	2331.9	2346.0	2344.9
17.5°	3699.6	3569.0	3171.9	2637.6	2273.0	2211.0	2252.4	2313.3	2357.9	2377.5	2381.9
20°	3873.7	3695.2	3132.7	2422.2	2137.0	2149.0	2223.0	2301.3	2350.3	2375.3	2381.9
22.5°	4072.8	3830.1	3039.1	2195.9	2026.1	2081.6	2168.6	2244.8	2295.9	2320.9	2327.5
25°	4300.2	3981.4	2892.2	2005.4	1930.3	2005.4	2092.4	2155.6	2196.9	2219.7	2226.3
27.5°	4552.6	4139.2	2696.4	1854.1	1846.5	1927.0	1998.9	2047.8	2069.6	2087.0	2093.6
30°	4806.2	4282.9	2459.2	1739.9	1773.7	1849.8	1901.0	1922.7	1929.3	1932.5	1940.1
32.5°	5080.4	4406.9	2210.0	1645.2	1704.0	1774.7	1805.2	1815.0	1784.5	1763.8	1770.4
35°	5412.3	4539.6	1966.3	1570.2	1635.4	1696.4	1706.1	1697.5	1661.5	1619.1	1621.2
37.5°	5822.5	4705.0	1771.4	1516.8	1571.2	1611.5	1599.5	1597.4	1600.6	1550.5	1553.8
40°	6325.2	4920.4	1628.9	1475.5	1519.0	1527.8	1493.9	1512.5	1528.8	1452.6	1454.8
42.5°	6883.4	5180.6	1538.6	1447.2	1475.5	1454.8	1402.6	1423.2	1421.1	1321.0	1319.9
45°	7452.5	5463.5	1507.1	1426.5	1435.2	1393.9	1336.2	1341.6	1295.9	1205.6	1208.9
47.5°	8018.3	5767.0	1526.6	1409.1	1385.2	1338.3	1293.8	1269.9	1202.3	1134.9	1134.9
50°	8573.2	6085.8	1598.5	1374.3	1316.6	1289.4	1256.8	1214.3	1142.6	1084.9	1080.5
52.5°	9088.0	6406.8	1679.0	1316.6	1230.6	1247.0	1226.3	1177.3	1106.6	1047.9	1049.0
55°	9575.4	6727.8	1710.5	1237.2	1150.2	1210.0	1198.0	1107.7	1022.8	975.0	970.6
57.5°	10106.4	7114.1	1675.7	1136.0	1084.9	1167.6	1121.9	1021.7	972.7	936.8	933.6
60°	10841.9	7720.2	1600.6	1010.9	1022.8	1104.4	1026.1	984.7	931.4	891.1	889.0
62.5°	12063.9	8850.7	1479.8	886.8	950.0	1010.9	980.4	939.0	884.7	845.4	845.4
65°	13870.2	10422.0	1252.4	790.0	868.3	919.4	931.4	890.1	833.5	792.1	794.3
67.5°	15393.6	11407.7	947.7	709.4	784.5	845.4	879.2	839.0	779.1	738.8	739.9
70°	15309.8	10691.8	723.5	630.1	710.5	772.5	816.1	784.5	720.4	682.2	685.5
72.5°	13598.2	8944.3	585.4	549.5	635.5	696.4	748.7	724.7	659.4	622.4	622.4
75°	9990.0	6349.2	467.9	467.9	541.9	616.9	674.7	659.4	599.5	573.4	565.8
77.5°	4211.0	2663.7	366.7	388.5	450.5	529.9	601.8	607.2	554.9	587.6	533.2
80°	1119.7	734.5	279.6	305.8	353.6	437.5	523.4	521.2	464.6	434.2	403.6
82.5°	426.5	289.5	199.2	215.5	255.7	335.2	414.6	427.6	371.0	321.0	321.0
85°	164.3	124.0	123.0	129.5	149.0	222.0	313.3	324.2	279.6	237.2	244.9
87.5°	42.4	37.0	45.7	43.6	68.6	118.6	179.6	186.0	170.9	99.0	141.4
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)